JVC

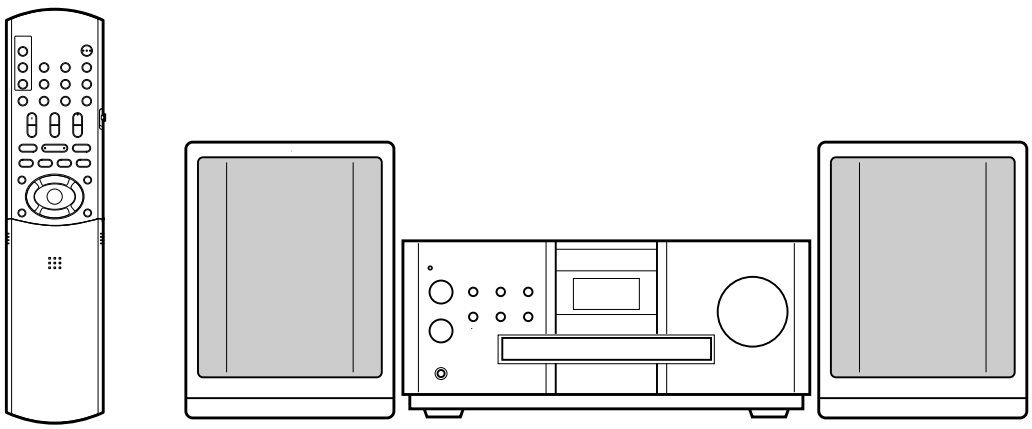
COMPACT COMPONENT SYSTEM

EX-A1

Consists of CA-EXA1 and SP-EXA1

EX-P1

Consists of CA-EXP1 and SP-EXP1



WOOD CONE R·D·S DVD AUDIO/VIDEO DOLBY DIGITAL dts 2.0+DIGITAL OUT COMPACT disc SUPER VIDEO

INSTRUCTIONS

LVT1284-004B
[B]

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION – ⏻/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The ⏻/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off. The power can be remote controlled.

CAUTION

- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

CAUTION – Proper Ventilation

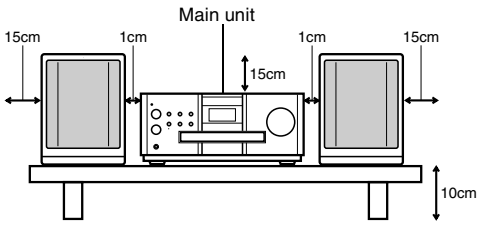
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

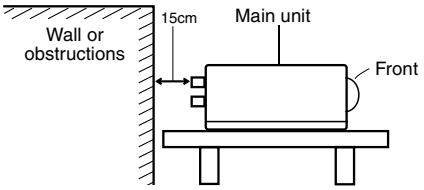
Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.

Front view



Side view



IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

SAFETY INSTRUCTIONS
"SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

☆☆

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

☆☆

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way — switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

— NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case.

— this could result in a fatal electrical shock.

— NEVER guess or take chances with electrical equipment of any kind — it is better to be safe than sorry!

E43486–340B

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How to read this manual

- Operations are described by mainly using the remote control buttons. If there are the same marks on the main unit, the buttons on the main unit can also be used.
- The following marks tell you for which type of the discs the operation can be made.

DVD VIDEO | DVD AUDIO | VCD | SVCD | C D | MP3 | JPEG

- The illustrations and TV screens may be different between the actual case and the description.
- “VCD” is an abbreviation of “Video CD”.
- “SVCD” is an abbreviation of “Super Video CD”.

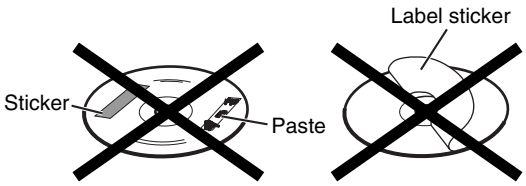
Notes on handling

■ Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws
Check the copyright laws in your country before recording from DVDs, Super Video CDs (SVCDs), VCDs and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system
DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

■ When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens to prevent the system from working properly:
- Immediately after roomheating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

Supplied accessories

Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Speaker cords (2)
- Cloth (for wiping and cleaning the speaker cabinet) (1) (only for EX-P1)

- ***Manufactured under license from Dolby Laboratories. "Dolby", "MLP Lossless", and the double-D symbol are trademarks of Dolby Laboratories.***
- ***"DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.***
- ***This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.***

Playable disc types

This system has been designed to play back the following discs:
DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

This system can also play back the following discs:
- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- CD-R/RW discs recorded in the following formats
- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/JPEG discs recorded in ISO 9660 (for details, refer to “About MP3/JPEG discs ”)

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.
Only sounds can be played back from the following discs:

MIX-MODE CD	CD-G
CD-EXTRA	CD TEXT

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO	DVD VIDEO	PAL	2/ALL
DVD AUDIO	DVD AUDIO/VIDEO DVD AUDIO	—	—
VCD	COMPACT disc DIGITAL VIDEO Video CD	PAL	—
SVCD	COMPACT disc SUPER VIDEO VIDEO CD	PAL	—
CD	COMPACT disc DIGITAL AUDIO	—	—
CD-R	COMPACT disc DIGITAL AUDIO Recordable	—	—
CD-RW	COMPACT disc DIGITAL AUDIO ReWritable	—	—

* **Note on Region Code**
DVD players and DVD VIDEOs have their own Region Code numbers. This system can only play back a DVD VIDEO recorded with the Region Code number and video format mentioned above.

Examples:

If a DVD VIDEO with an improper Region Code number is loaded, “REGION CODE ERROR!” appears on the TV screen and playback cannot start.

- **On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.**

Discs that cannot be played back
- The following discs cannot be played back:
  DVD-ROM, DVD-RAM, DVD-R/RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.

About MP3/JPEG discs
Playable MP3/JPEG discs and files
- Discs recorded in the ISO 9660 format are playable (except discs recorded in the “packet write” format (UDF format)).
- Discs recorded in the multi-session format are also playable.
- Files with an extension of “.mp3,” “.jpg” or “.jpeg” (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

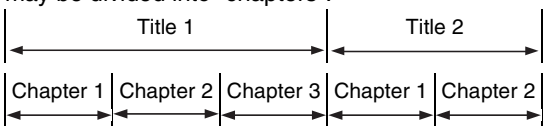
Notes on MP3/JPEG discs and files
- A disc may not be played, or reading it may take a long time depending on its recording conditions or properties.
- The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
- If a character other than single byte English characters is used in the file name of an MP3/JPEG file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3 Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on PC’s monitor screen.
- An off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- Playing an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing starts. If playing starts, the elapsed time may not be displayed correctly.
- This system does not handle the ID3 tag of the MP3 file.
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This system can play a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This system cannot play animations such as MOTION JPEG, or still images (TIFF etc.) other than JPEG, and image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8192 x 7680 pixels cannot be displayed.
- Files recorded on DVD-R/RW discs cannot be played back.

Caution for DualDisc playback:
The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Disc structure

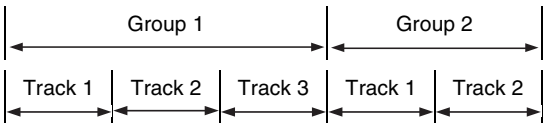
DVD VIDEO

A DVD VIDEO consists of “titles” and each title may be divided into “chapters”.



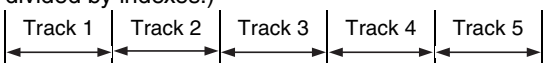
DVD AUDIO

A DVD AUDIO consists of “groups” and each group may be divided into “tracks”.
Some discs include a “bonus group” that requires a password for playing (☞ page 27).



VCD/SVCD/CD

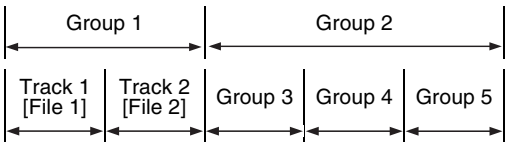
VCD, SVCD and CD consist of “tracks”.
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



MP3 [JPEG] discs

On an MP3 [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

This unit simplifies the hierarchical construction of a disc and manages folders by “groups”.



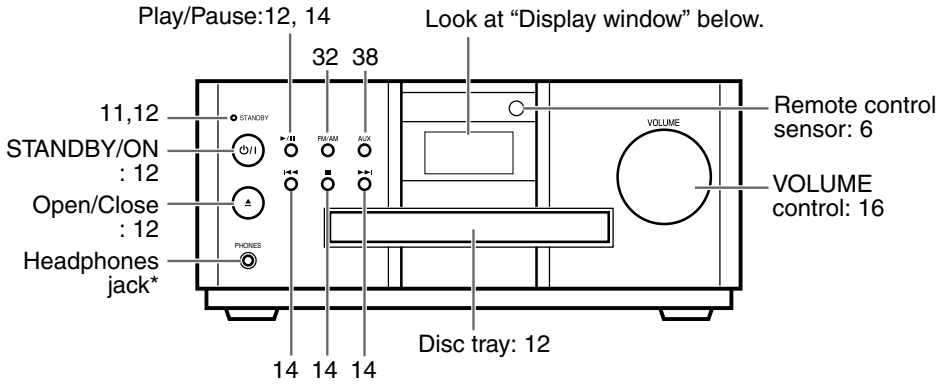
This product can recognize up to 1000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played back.

- If there is any type of files other than MP3 [JPEG] files in a folder, those files are also counted in the total file number.

Description of parts

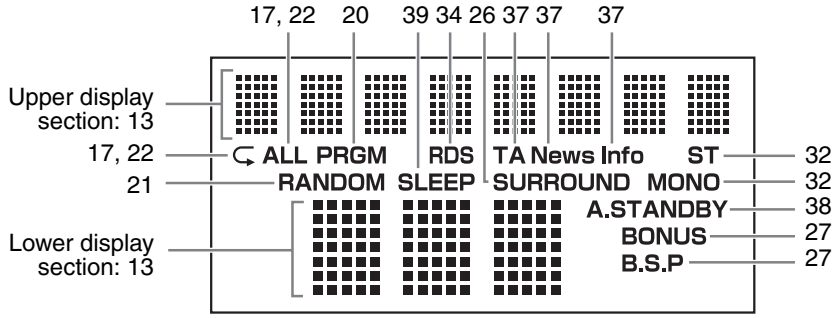
The numbers represent the page numbers.

Front panel

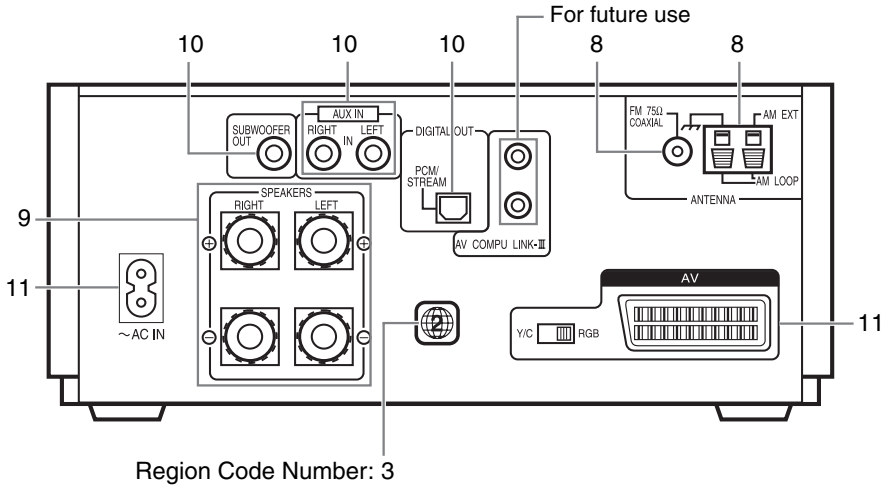


* Connect a pair of headphones (commercially available) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

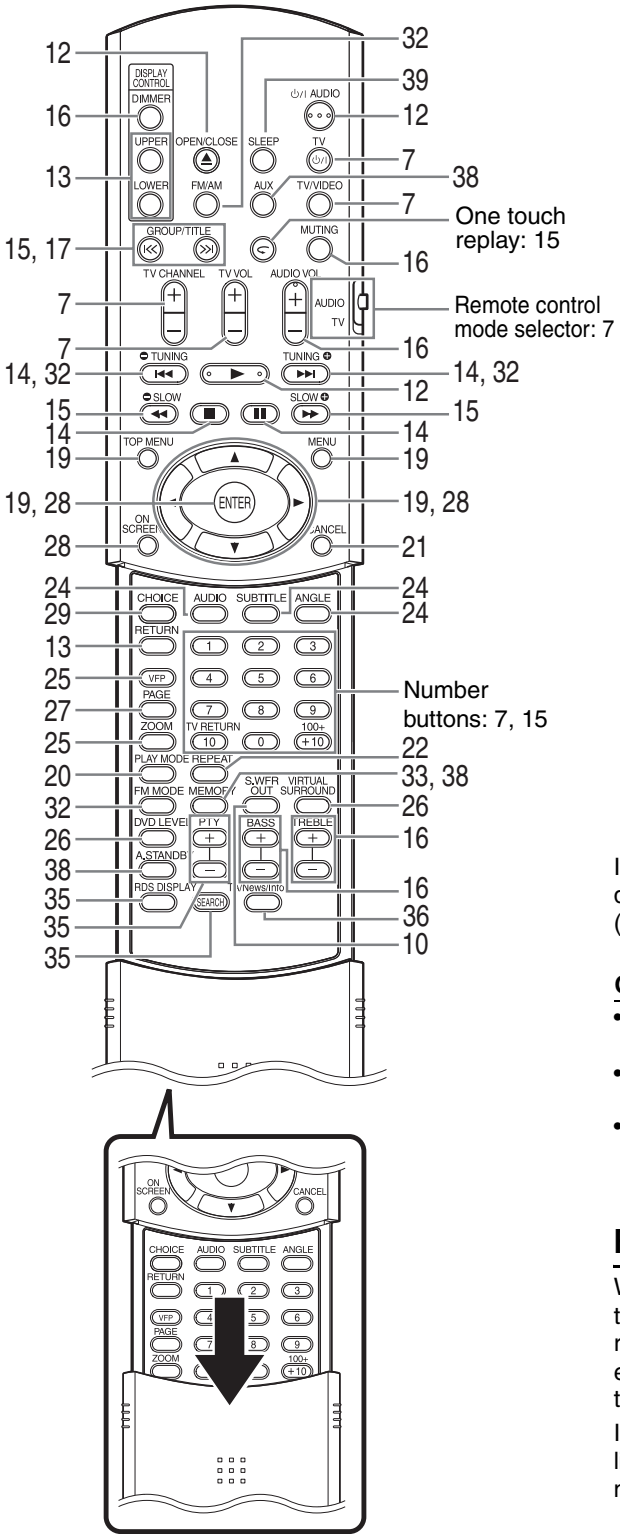


Rear panel

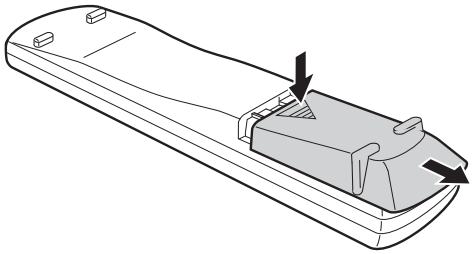


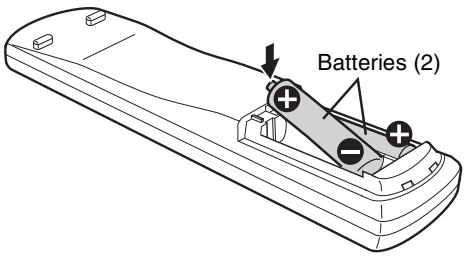
Using the remote control

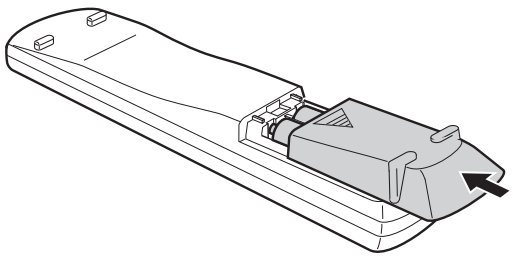
The numbers represent the page numbers.



Putting the batteries in the remote control







If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- **Do not use a used battery and a new battery together.**
- **Do not use different types of batteries at the same time.**
- **Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.**

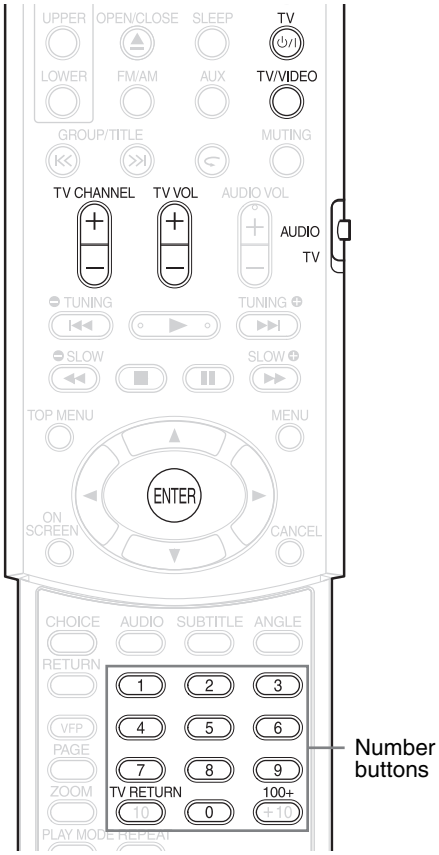
Remote control operation

When operating the remote control, point it towards the front panel of the main unit. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

This page is for when operating your TV using the remote control of this product.

Operating the TV using the remote control



Setting the manufacturer's code

1 Slide the remote control mode selector to the TV side.

2 Keep pressing down ⏻/I TV.

NOTE

Keep pressing down ⏻/I TV until Step 4 is complete.

3 Press ENTER and release.

4 Press number buttons (1-9, 0).

Examples:
For a Hitachi TV: Press 0, then 7.
For a Toshiba TV: Press 2, then 9.

If there are more than one manufacturer's codes, try them in turn and select the one that causes the product to work properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Nordmende	13, 14, 18, 26-28
Akai	02, 05	Okano	09
Blaupunkt	03	Orion	15
Daewoo	10, 31, 32	Panasonic	16, 17
Fenner	04, 31, 32	Philips	10
Fisher	05	Saba	13, 14, 18, 26-28
Grundig	06	Samsung	10, 19, 32
Hitachi	07, 08	Sanyo	05
Inno-Hit	09	Schneider	02, 05
Irradio	02, 05	Sharp	20
Magnavox	10	Sony	21-25
Mitsubishi	11, 33	Telefunken	13, 14, 18, 26-28
Miver	03	Thomson	13, 14, 18, 26-28, 30
Nokia	12, 34	Toshiba	29

NOTE

Manufacturer's codes may be changed without notice. You may not be able to operate a TV produced by the manufacturer shown above.

5 Release ⏻/I TV.

For TV operation

Operate the remote control by pointing it towards the TV.

TV ⏻/I	Turn ON/OFF the power.
TV CHANNEL + −	Change channels.
TV VOL + −	Adjust volume.
1 ~ 9 / 0 / 100+ +10	AUDIO TV *1 — Select channels.
TV RETURN 10	Alternates between the previously selected channel and the current channel.
TV/VIDEO	Switch TV and video input.

*1 Make sure to slide the remote control mode selector to the TV side in advance.

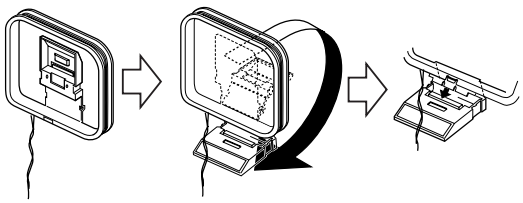
NOTE

When the batteries are replaced, perform the manufacturer's code setting again.

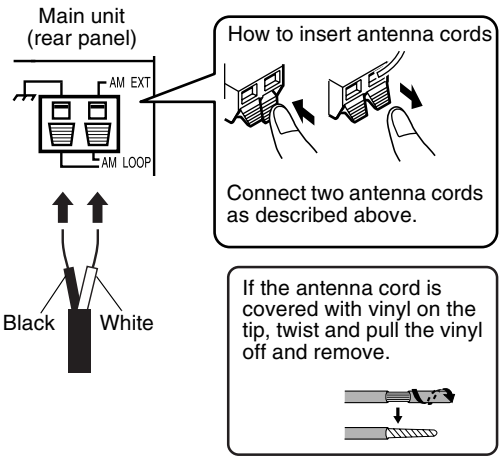
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.



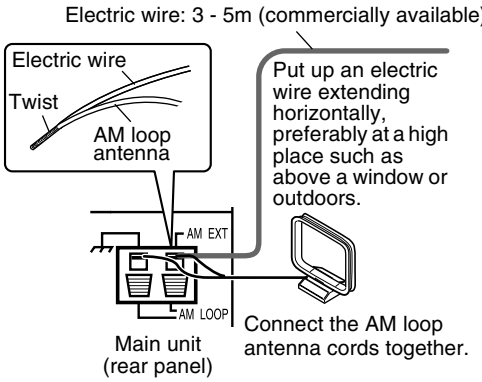
2 Connect antenna cords.


Main unit
(rear panel)
AM EXT
AM LOOP
How to insert antenna cords
Connect two antenna cords as described above.
Black
White
If the antenna cord is covered with vinyl on the tip, twist and pull the vinyl off and remove.

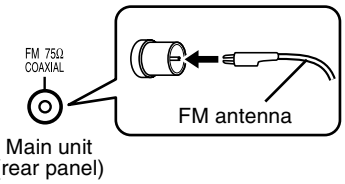
3 Turn the AM loop antenna to the direction of the best radio reception.
Locate the AM loop antenna as far away from the main unit as possible.

- Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc. Otherwise it may result in bad radio reception.

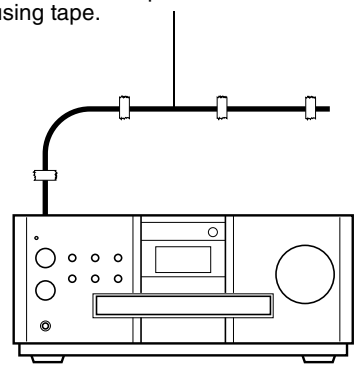
■ When good radio reception cannot be obtained with the supplied AM loop antenna


Electric wire: 3 - 5m (commercially available)
Electric wire
Twist
AM loop antenna
Put up an electric wire extending horizontally, preferably at a high place such as above a window or outdoors.
AM EXT
AM LOOP
Main unit
(rear panel)
Connect the AM loop antenna cords together.

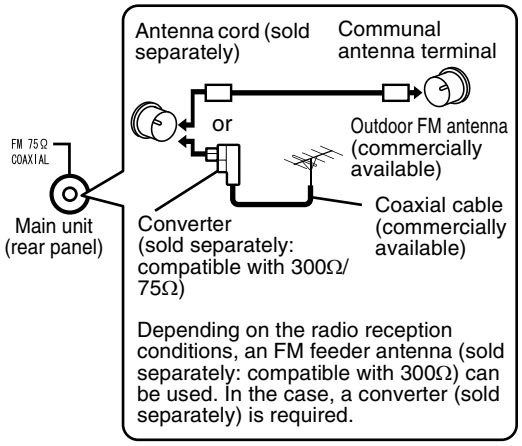
Connecting FM antenna (supplied)



Put the antenna up straight in the direction where the best radio reception can be obtained, and fix by using tape.



■ When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna

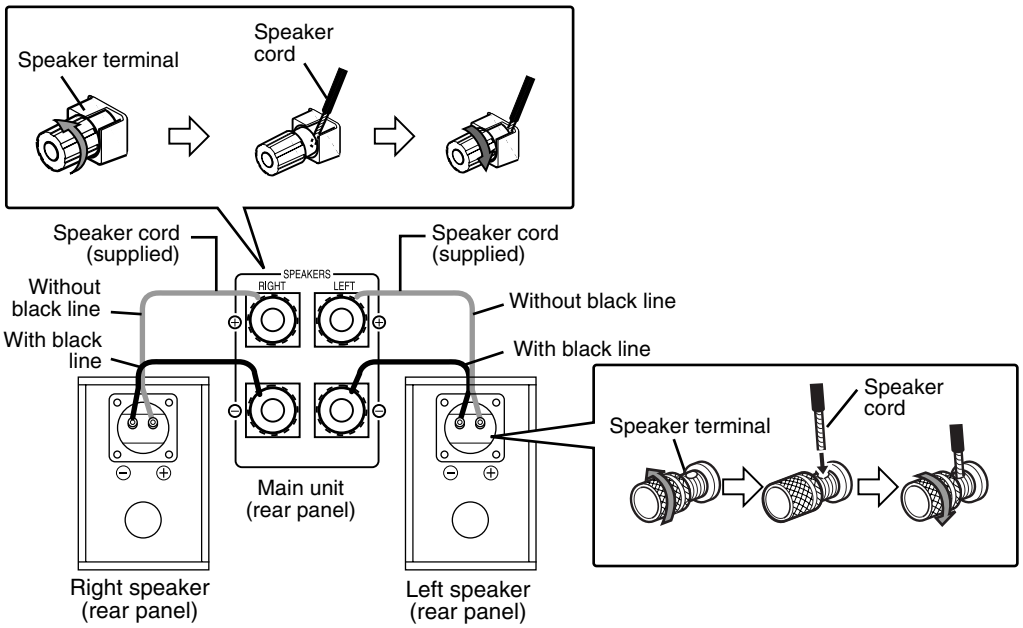

Antenna cord (sold separately)
Communal antenna terminal
or
Outdoor FM antenna (commercially available)
FM 75Ω
COAXIAL
Coaxial cable (commercially available)
Main unit
(rear panel)
Converter
(sold separately: compatible with 300Ω/ 75Ω)
Depending on the radio reception conditions, an FM feeder antenna (sold separately: compatible with 300Ω) can be used. In the case, a converter (sold separately) is required.

For details of connecting a separately sold antenna, refer to the user guide for the antenna or converter.

When positioning the antenna, listen to an actual radio program (refer to “Listening to a radio broadcast” on page 32).

Connecting speakers

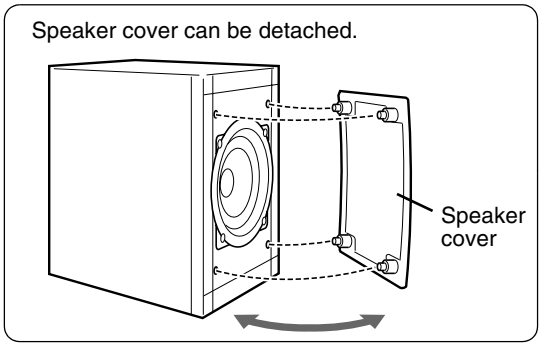
There is no difference between the left and right speakers.



CAUTION

- **DO NOT connect more than one speaker to one speaker terminal.**
- **The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.**
  1. **Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.**
  2. **If color irregularity occurs in pictures , keep a distance of more than 10 cm between the TV and the speakers.**

The EX-A1 and EX-P1 speakers employ natural wood for the diaphragm in order to reproduce the original sound faithfully (the EX-A1 speakers also employ natural wood for the cabinet).
The appearance will therefore be different for each unit.



NOTE

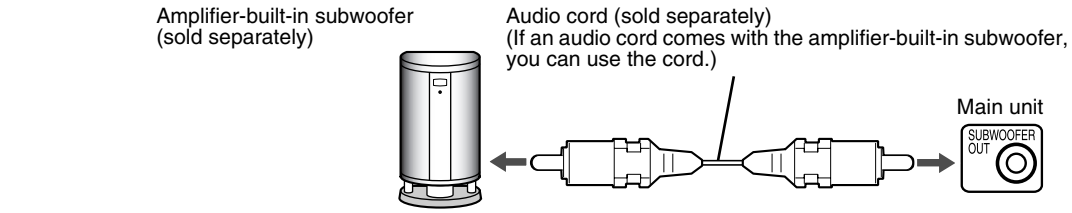
- *Impedance of speaker that can be connected to the main unit is within a range of 4Ω to 16Ω.*
- *In order to have a sufficient cooling effect, leave a space of more than 1cm between the main unit and the speakers or other objects.*
- *If the speaker cabinet gets dirty, wipe it with the supplied cloth (EX-P1 only).*

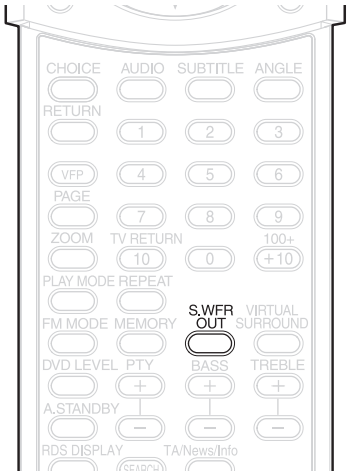
Connecting other devices

This page is for when connecting the main unit with other devices.

Connecting subwoofer

With an amplifier-built in subwoofer (sold separately), you can enjoy a more dynamic bass sound.
Refer to the manual of the subwoofer for details.


Amplifier-built-in subwoofer
(sold separately)
Audio cord (sold separately)
(If an audio cord comes with the amplifier-built-in subwoofer, you can use the cord.)
Main unit
SUBWOOFER OUT

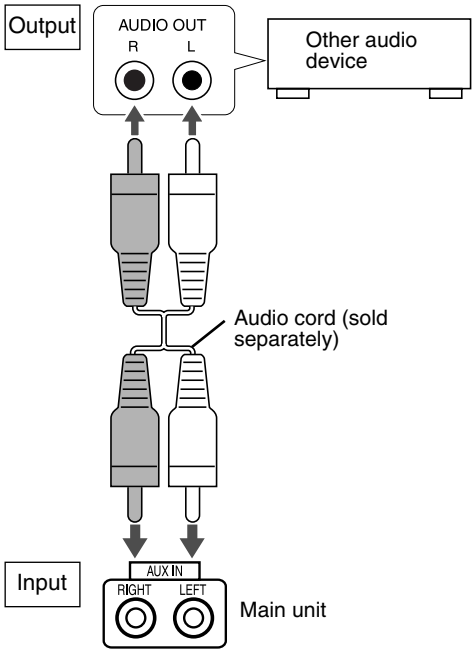


When you want to hear sound from the subwoofer, press **S.WFR OUT** on the remote control to display "SUB WFR ON" (Sub Woofer ON) on the display window on the main unit. Each time you press the button, the display toggles between "ON" and "OFF".

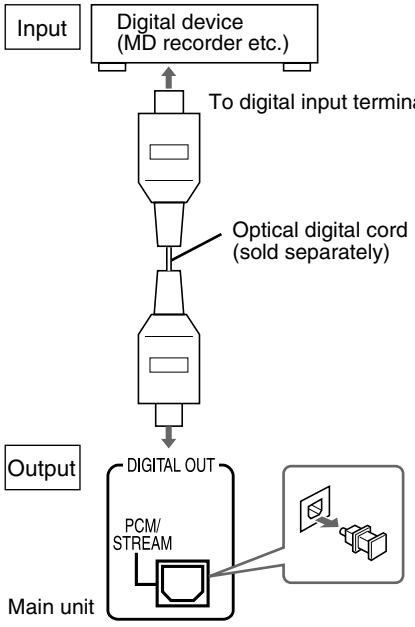
NOTE

When "SUB WFR ON" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with other audio device



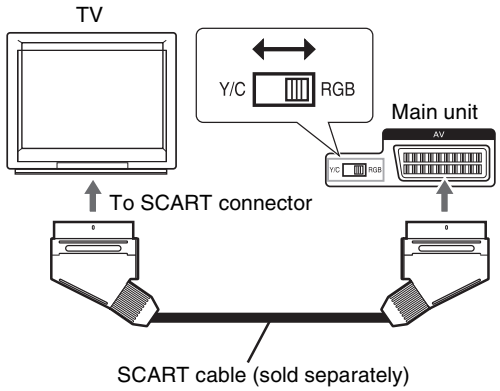
Connecting with a digital device



CAUTION

- **For details of signals to be output, refer to page 30.**
- **If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (☞ page 30) will be invalid regarding sound from the digital audio output of the main unit.**

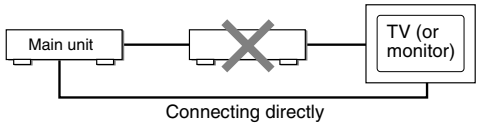
Connecting with TV



- In standby mode, set the RGB-Y/C selector correctly according to your TV.
  - When the TV accommodates the RGB video signal, set the RGB-Y/C selector to RGB so that you can enjoy better-quality pictures.
  - When the TV accommodates the S-video signal, set the RGB-Y/C selector to Y/C.
  - When the TV accommodates the composite video signal only, set the RGB-Y/C selector to RGB.

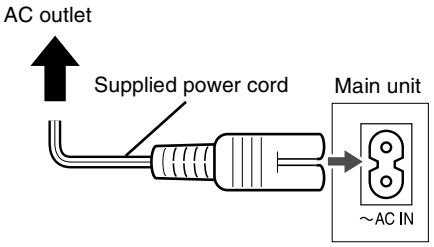
CAUTION

Connect the main unit directly with a TV (or a monitor) without routing through a VCR. Otherwise it may cause picture distortion while playing.



Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

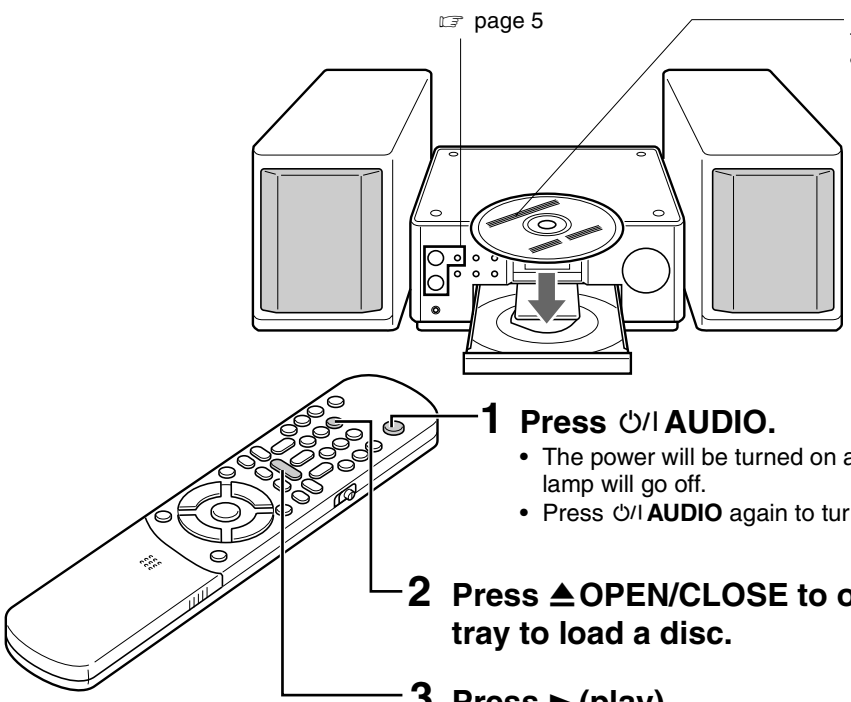
Connecting the power cord



- Connect the power cord after all other connections are complete.
- The STANDBY lamp (on the front panel) will be lit.

Playback

DVD VIDEO DVD AUDIO VCD SVCD CD (Refer to page 16 for playing MP3 and JPEG.)



1 Press ⏻/I AUDIO.
- The power will be turned on and the STANDBY lamp will go off.
- Press ⏻/I **AUDIO** again to turn off the power.

2 Press ⏏OPEN/CLOSE to open the disc tray to load a disc.

3 Press ►(play).
The disc tray will close and playback will start.

- The power will be turned on when any of ►/II, FM/AM, AUX or ⏏ on the main unit and ►, FM/AM, AUX or OPEN/CLOSE on the remote control is pressed while the power is off.

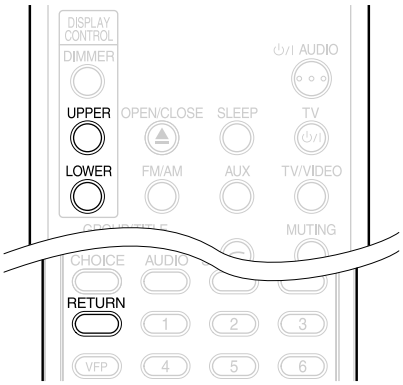
  If any button other than ⏏ or OPEN/CLOSE is pressed, the source will also be changed (if there is a disc loaded, playback will start).

NOTE
- *A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.*
  - *Select a desired item using ▲ ▼ ◄ ► and press ENTER.*
  - *Select a desired item using the number buttons.*
- *Depending on the disc, actual operation may be different from the description.*

Screens displayed on the TV when the power is turned ON.

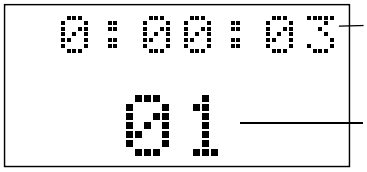
The following messages appear depending on the status of the system.
(When FM/AM or AUX is selected as a source, the messages do not appear.)

NOW READING	Appears when the system is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD does not match the code the system supports. (☞ page 3)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when opening the disc tray.
CLOSE	Appears when closing the disc tray.
CANNOT PLAY THIS DISC	Appears when trying to play back an unplayable disc.



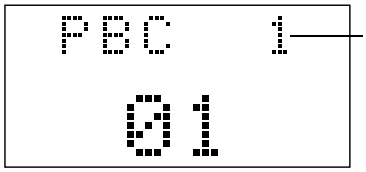
Display window during disc playback

Example: When a DVD VIDEO or DVD AUDIO is played



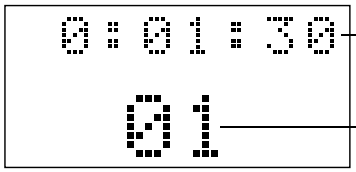
If “BONUS” or “B.S.P.” is displayed during a DVD AUDIO playback, refer to page 27.

Example: When a SVCD or VCD is played

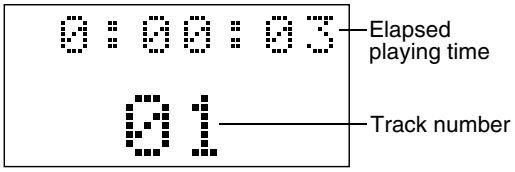


- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.
  - Designate the track number using the number buttons while the disc is stopped.
  - Designate the track number using ⏮ or ⏭ while the disc is stopped, and then press ▶ (play).
- Press **RETURN** to go back to the upper layer during the PBC playback of a VCD or SVCD.

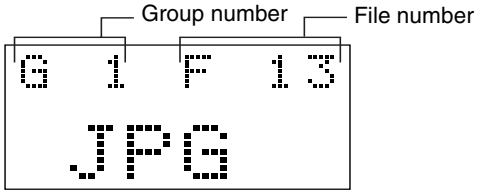
Example: When a CD is played



Example: When an MP3 disc is played



Example: When a JPEG disc is played



To switch the display

Press **UPPER** or **LOWER**. Each time you press the button, the display will be alternated.

Display examples

DVD VIDEO

UPPER: →0:00:03 (Elapsed playing time) → T1 C3 (Title and Chapter number) → No display →

LOWER: →03 (Chapter number) → T1 (Title number) → DVD →

DVD AUDIO

UPPER: →0:00:03 (Elapsed playing time) → G1 T3 (Group and Track number) → No display →

LOWER: →03 (Track number) → G1 (Group number) → DVD →

VCD/SVCD

UPPER: →0:00:03 (Elapsed playing time) → No display
PBC 2 (PBC and Track number appear only when PBC function is played) →

LOWER: →02 (Track number) → VCD →

CD

UPPER: →0:00:03 (Elapsed playing time) → No display →

LOWER: →02 (Track number) → CD →

MP3 disc

UPPER: →0:00:03 (Elapsed playing time) → G1 T3 (Track number) → No display →

LOWER: →G1 (Group number) → MP3 → 03 (Track number) →

JPEG disc

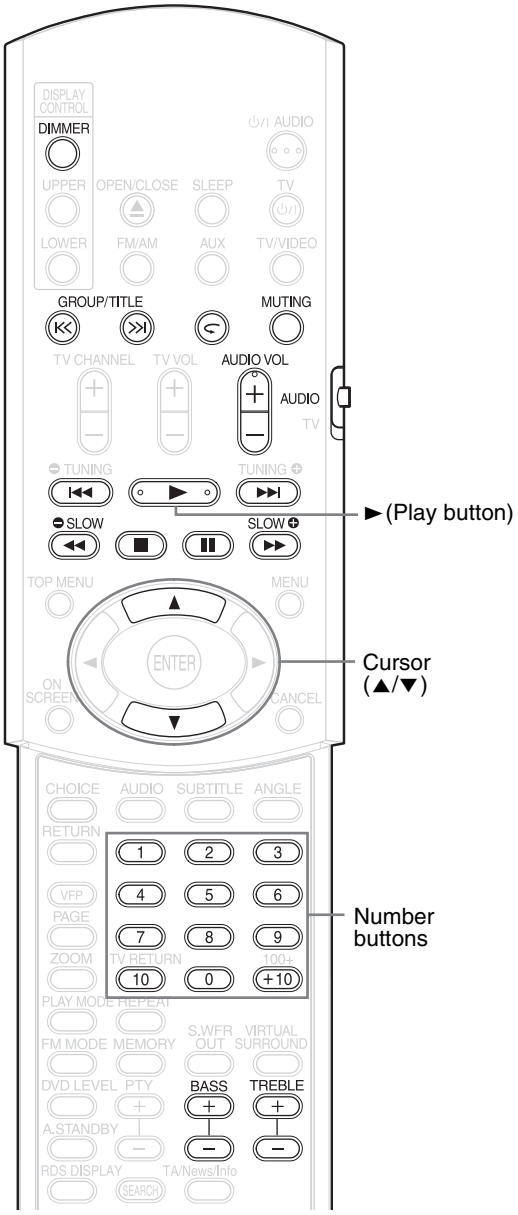
UPPER: →G1 F3 (Group number and File number) → No display →

LOWER: JPG

NOTE

Abbreviations

G: Group
T: Title (DVD VIDEO)
Track (DVD AUDIO and MP3)
C: Chapter
F: File



Select what you want to play by using the number buttons

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 JPEG

NOTE

- *Set the remote control mode selector to* **AUDIO** *before using the number buttons.*
- *For a VCD or SVCD, this operation can be carried out when the disc is stopped, or during playback without the PBC function.*
- *For a DVD AUDIO, CD, MP3 or JPEG, this operation can also be carried out when the disc is stopped.*
- *This operation may not be carried out for some discs.*

Designate the chapter number or track number to play during playback.

Refer to “How to use the number buttons” on page 15.

To stop playback

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 JPEG

Press ■ during playback.

To pause playback

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 JPEG

Press ❚❚ during playback.

To resume normal playback, press ►(play).

- Press ❚❚ to pause during JPEG disc slide-show. Press ►(play) to start playback from the next file.
- It is not possible to pause by pressing ►/❚❚ on the main unit during JPEG disc slide-show.

To advance picture frame-by-frame

DVD VIDEO SVCD VCD

Press ❚❚ during pause.

Each time you press the button, picture will be advanced frame-by-frame.

Fast reverse/Fast forward search

DVD VIDEO DVD AUDIO VCD SVCD C D

There are two methods.

- **Press ◄◄ or ►► during playback.**
  Each time you press the button, the speed increases (×2, ×5, ×10, ×20, ×60). To restore the normal speed, press ►(play).
- **Hold down ⏮ or ⏭.**
  Fast reverse/Fast forward search can be carried out only while the button is pressed (×5→×20).

NOTE

- *Fast reverse/Fast forward search cannot be carried out for MP3 and JPEG.*
- *For a DVD VIDEO, SVCD or VCD, no sound comes out during fast reverse/fast forward search.*
- *For a CD or DVD AUDIO, sound is intermittent during fast reverse/fast forward search.*

Playing back from a position 10 seconds before (One Touch Replay)

DVD VIDEO

Press ↺ during playback.

NOTE

- *This operation may not be carried out for some discs.*
- *It is not possible to go back to the immediately previous title.*

Slow Motion Playback

DVD VIDEO VCD SVCD

Press SLOW ⊖ or SLOW ⊕ during pause.

- Each time you press the button, the speed increases.
- Press ❚❚ to pause playback, and press ►(play) to resume normal playback.

NOTE

- *No sound will be produced.*
- *The picture motion in the reverse direction may not be smooth.*
- *For a VCD or SVCD, Slow Motion Playback can be carried out in the forward direction only.*

Skip to the beginning of the selection

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 JPEG

Press ⏮ or ⏭ during playback*.

- Each time you press the button, the previous or next beginning of chapter/track/file to the current position will be skipped to.
- Press ⏮ once to skip back to the beginning of the chapter or track currently being played (except for JPEG).
- Press **GROUP/TITLE** ⏭ or ⏮ to select the title or group.
- During playback of a JPEG disc, press ⏭ or cursor ▼ to play the next file, or press ⏮ or cursor▲ to play the previous file.

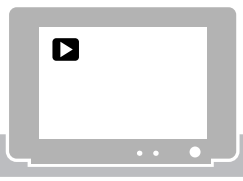
NOTE

- ** For a VCD or SVCD, this operation can be carried out during playback without the PBC function.*
- *Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.*
- *This operation may not be carried out for some discs.*

How to use the number buttons

Examples:

5: 5
20: +10 → 10
15: +10 → 5
25: +10 → +10 → 5



Guide icons displayed on the TV screen (On-screen guide)

: Play

: Pause

: Fast reverse/Fast forward search

: Slow Motion Playback (reverse/ forward directions)

: Containing multi-angle views (☞ page 24)

: Containing multi-audio languages (☞ page 24)

: Containing multi-subtitle languages (☞ page 24)

: The disc cannot accept the operation you have attempted.

To change the brightness of the display window (DIMMER)

Press DIMMER repeatedly.

- The modified brightness will be stored even after the power is turned off.

The items below can be carried out for all sources.

Adjusting the volume

Press AUDIO VOL +/–.

NOTE

The volume can be adjusted by turning the VOLUME control on the main unit.

Adjusting sound quality

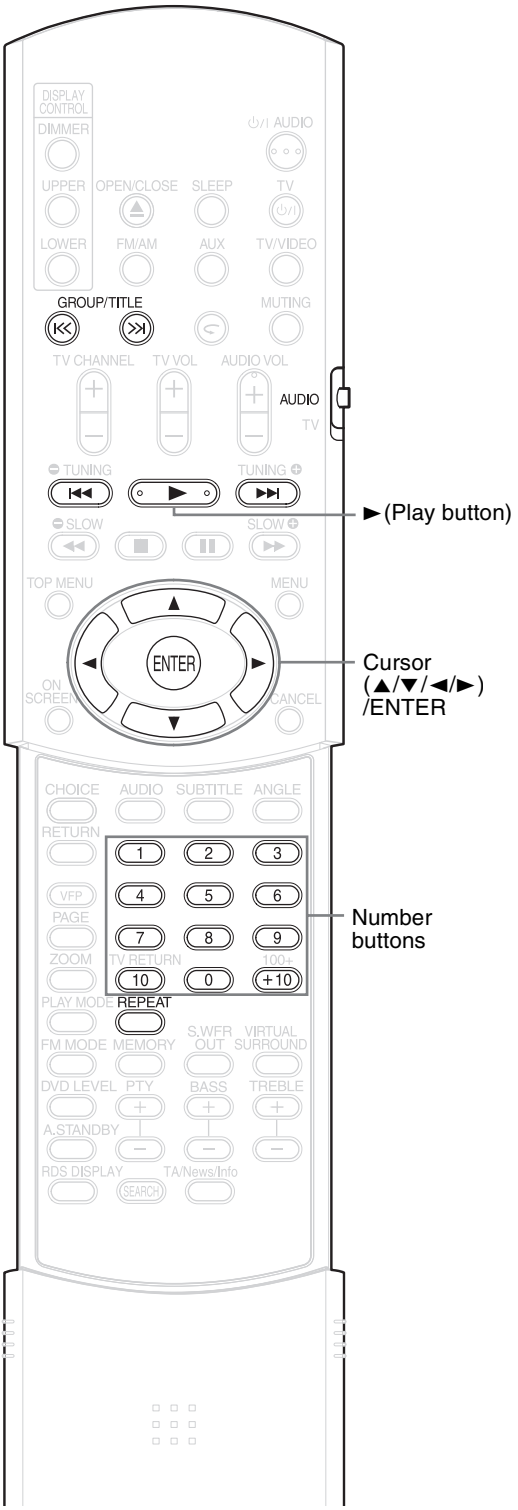
Bass: Press BASS +/–.
Treble: Press TREBLE +/–.

Turning off the sound temporarily (MUTING)

Press MUTING.

- No sound will come out from the speakers, headphones and the subwoofer.
- Press **MUTING** again to restore the sound. When the power is tuned off once and turned on again, the sound will be restored.

Playing MP3 and JPEG discs



NOTE

Set the remote control mode selector to **AUDIO** *before using the number buttons.*

Playback

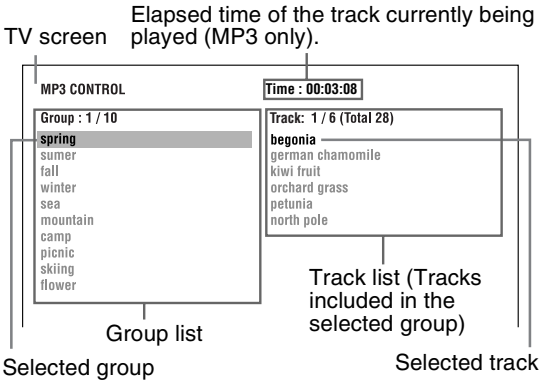
MP3 JPEG

Display of an MP3 disc is described here as an example.
For a JPEG disc, read “track” as “file”.

NOTE

When playing a disc containing both MP3 and JPEG files, set one of them to be played (☞ page 29).

1 Load a disc.



2 Press cursor ▲/▼ to select a group.

3 Press cursor ► to move to the track list.

- Press cursor ◄ to go back to the group list.

4 Press cursor ▲/▼ to select a track.

5 Press ►(play) or ENTER.

NOTE

- **GROUP/TITLE** ⏮, ⏭ *can also be used in Step 2.*
- *The number buttons can also be used in Step 4. In this case, Steps 3 and 5 are not needed. (For how to use the number buttons, refer to page 15).*
- ⏮ *or* ⏭ *can also be used in Step 4. In this case, Step 3 is not needed.*

Repeat playback

MP3 JPEG

1 Press REPEAT while the disc is stopped.

Each time you press the button, the Repeat type will be alternated.

Repeat types	Display on the TV screen	Display on the display window on the main unit
Repeats the current track (only for MP3).	REPEAT TRACK	↻
Repeats the current group.	REPEAT GROUP	↻ ALL *
Repeats the entire disc.	REPEAT ALL	↻ ALL
Cancels repeat.	No display	No display
Repeats the current track during a Program or Random Playback (only for MP3).	REPEAT STEP	↻
Repeats all programmed tracks or the all tracks for Random play (only for MP3).	REPEAT ALL	↻ ALL

* ☼ represents blinking.

2 Press ►(play).

NOTE

- *The Repeat types can be changed during playback.*
- *The Repeat mode will be automatically cancelled if there is a file that cannot be played (☞ page 3).*

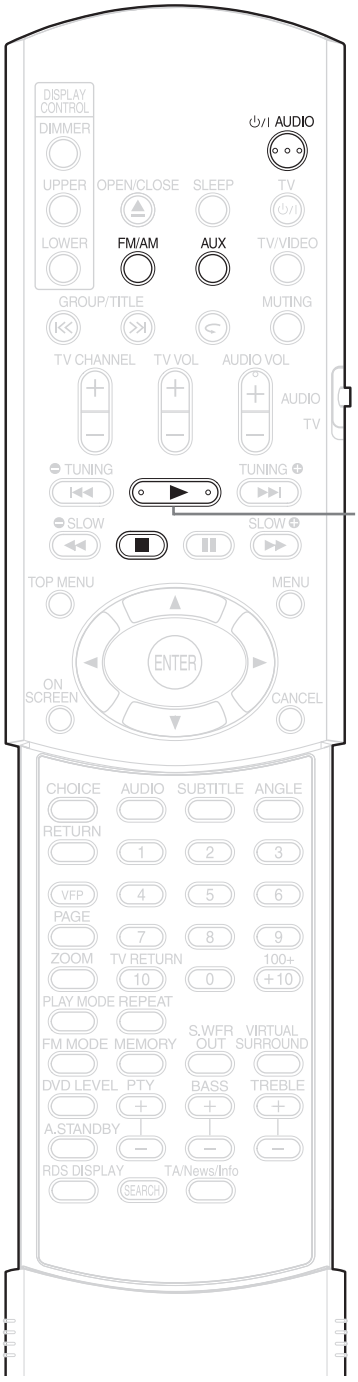
Slide-Show Playback JPEG

- In Step 5, for a JPEG disc, when ►(play) is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when **ENTER** is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through, the playback will be automatically stopped.

Resume Playback

DVD VIDEO DVD AUDIO VCD SVCD

When playback is stopped in the middle, playback can be started from the stopped scene.
This is called Resume function.



►(Play button)

How to suspend playback

Perform any of the following operations during playback.

Press ■ once.*
Press ⏻/I AUDIO to turn off the power.
Change the source to FM/AM or AUX.*

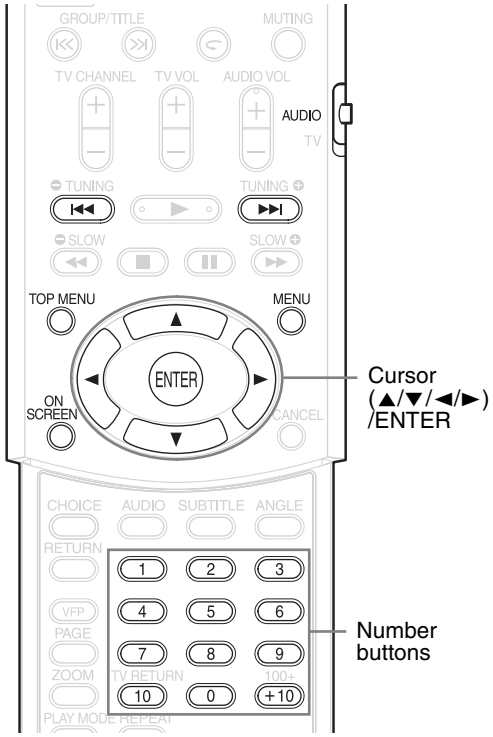
* Even if the power is turned off by pressing ⏻/I AUDIO after this, the position where playback has been stopped will be stored.

To start playback from the stored position

Press ► (play).

NOTE

- *This function does not work in Program Playback or Random Playback.*
- *The position where playback starts again may be a little different from the stopped position.*
- *When a disc menu is displayed, the Resume function may not work.*
- *The audio language, the subtitle language and the angle at that time are stored as well as the stopped position.*
- *The stored position will be cleared if the disc tray is opened. Further, if ■ is pressed during playback, "RESUME" will be displayed. If ■ is pressed at this time, "RESUME OFF" will be displayed and the stored information will be cleared.*
- *At the time of purchase, Resume is set to ON. Resume can be set to OFF (☞ page 30).*



NOTE

Set the remote control mode selector to **AUDIO** *before using the number buttons.*

Select from the menu

DVD VIDEO DVD AUDIO VCD SVCD

1 Press MENU or TOP MENU while the disc is stopped or during playback[*1].

- The disc menu screen will be displayed.
- Only **TOP MENU** can be used for DVD AUDIOs.

2 Press cursor ▲/▼/◄/►(only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the scene to be played.

- Refer to “How to use the number buttons” (☞ page 15).
- When the menu screen has a couple of pages, press I◄◄ or ►►I to change the page (only for a VCD and SVCD).

3 Press ENTER.

NOTE

*[*1] For a VCD and SVCD, this operation can be carried out only when the PBC function is off.*

- *This operation cannot be carried out for a disc without a menu screen.*
- *Playback may start for some discs without pressing* **ENTER**.

Designate the time (Time search)

DVD VIDEO DVD AUDIO VCD SVCD C D

1 Press ON SCREEN twice during playback[*2].

The menu bar will be displayed (☞ page 28).

2 Press cursor◄/► to select .

3 Press ENTER.

4 Input the time[*3] using the number buttons (1-9, 0).

Example: When you want to play a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:

0 → 2 → 3 → 4 → 5 .

“minutes” and “seconds” can be omitted.

- If you input wrong numbers, press cursor◄ to delete the numbers and re-input.

5 Press ENTER.

To delete the menu bar, press **ON SCREEN**.

NOTE

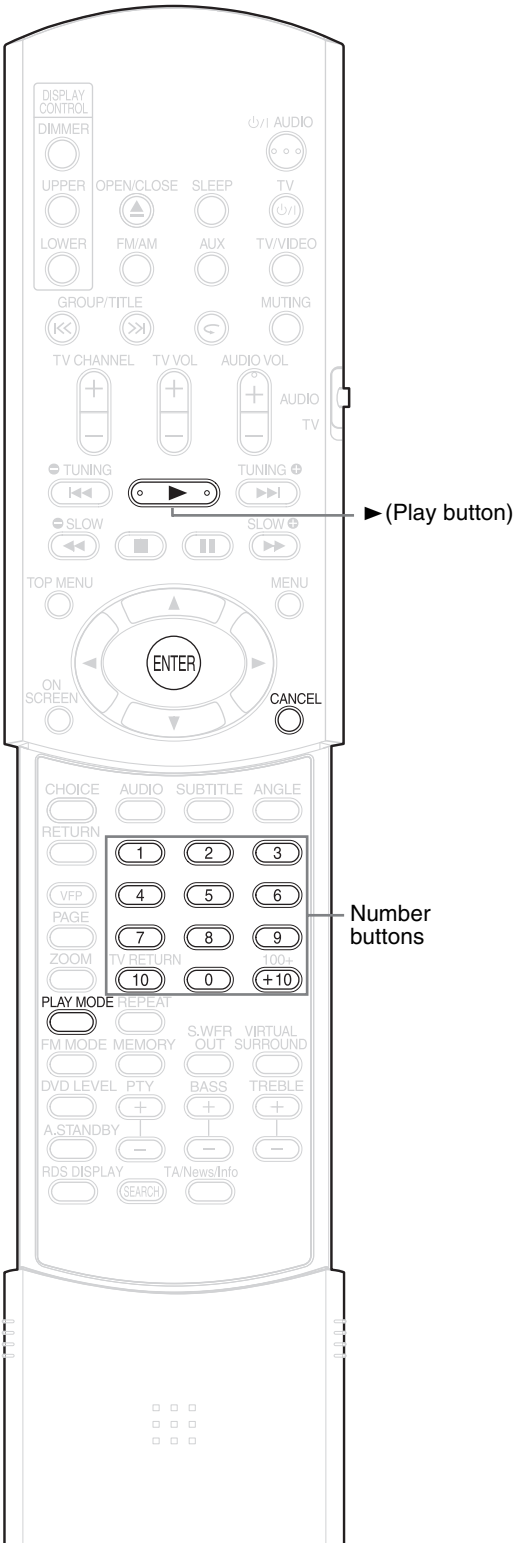
- *This function does not work for a DVD VIDEO with no time information recorded.*
- *This function does not work during Program or Random Playback.*

*[*2] For a CD, this operation can always be carried out, while, for a VCD and a SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.*

*[*3] Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO from the beginning of the track being played. Time search for a VCD, a SVCD and a CD is as follows:*

- *When the disc is stopped, time search is from the beginning of the disc.*
- *When the disc is being played, time search is within the track currently being played.*

DVD VIDEO DVD AUDIO VCD SVCD C D MP3



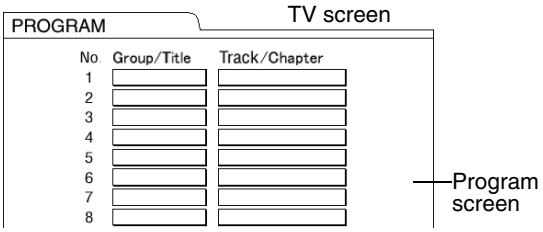
Play the disc in the desired order (Program Playback)

It is possible to program a maximum of 99 tracks or chapters. The same track or chapter can be programmed more than once.

1 While the disc is stopped, press PLAY MODE repeatedly to display "PRGM" on the display window on the main unit.

"PRGM" is an abbreviation for PROGRAM.

Example: For DVD VIDEO



2 Create a program following the description on the TV screen.

Refer to "How to use the number buttons" (☞ page 15).

- The input content varies depending on the disc type.
  - DVD VIDEO: Titles and chapters
  - VCD, SVCD, CD: Tracks
  - DVD AUDIO, MP3: Groups and tracks
- To select a DVD AUDIO bonus group, carry out the operations of "Playing the Bonus Group" on page 27 in advance to erase the display "BONUS".
- If the number of tracks or chapters input is greater than 99, "FULL" will be displayed.
- In the case of a CD, SVCD or VCD, when the total playback time reaches 9 hours 59 minutes 59 seconds, "--:--" will be displayed on the display window (It is possible to continue programming).

NOTE

Set the remote control mode selector to **AUDIO** *before using the number buttons.*

To program on the display window on the main unit, operate as follows.

(1) Select a group/title using the number buttons.
Display example of the upper display window: T2 C--

(2) Designate a track/chapter number using the number buttons.
Display example of the upper display window: T2 C3
- Refer to "How to use the number buttons" (☞ page 15).
- The program number will be displayed on the lower display window (Example: "P2").

(3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

NOTE

(Only for a DVD VIDEO, a DVD AUDIO or an MP3) If you press **ENTER** *instead of designating a track/chapter number, "ALL" is displayed and all of the tracks/chapters included in the selected group/title are programmed.*

3 Press ►(play).

- To resume normal playback, press **PLAY MODE** repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
  - Hold down **CANCEL** until "CLEAR!" appears on the display window with the program preference screen displayed (if **CANCEL** is pressed and released quickly, programs will be erased one by one).
  - Open the disc tray
  - Turn off the power

Playing the disc in a random order (Random Playback)

1 Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.

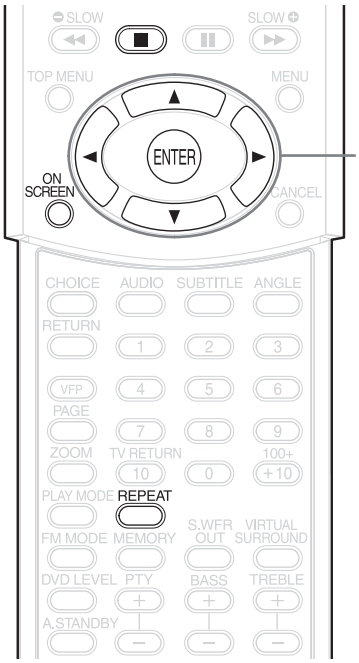
- "RANDOM" will also be displayed on the TV screen.

2 Press ►(play).

- The same chapter or track will not be played twice.
- To resume normal playback, press **PLAY MODE** repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped.
- Random Playback will also be cancelled by carrying out the following operations.
  - Open the disc tray
  - Turn off the power
- The previous track will not be returned to even if I◄◄ is pressed repeatedly during Random Playback (the beginning of the current chapter or track will be returned to).

Repeat Playback

Refer to page 17 for Repeat Playback of MP3 and JPEG files.



Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)

DVD VIDEO DVD AUDIO VCD SVCD CD

1 Press REPEAT during playback.

Each time you press the button, the Repeat type will be alternated.

Example:

TV screen: CHAP

Display window on the main unit: ↻

For DVD VIDEO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter	CHAP.	↻
Repeats the current title	TITLE	↻ ALL *
Cancels repeat	OFF	No display

For DVD AUDIO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	↻
Repeats the current group	GROUP	↻ ALL *
Cancels repeat	OFF	No display

* ☼ represents blinking.

For CD/VCD/SVCD

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	↻
Repeats all tracks	ALL	↻ ALL
Cancels repeat	OFF	No display

NOTE

- *For a DVD AUDIO and CD, this operation can always be carried out, while, for a VCD and SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.*
- *It is possible to set Repeat on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)"(☞ page 23).*
- *The abbreviations displayed on the main unit are as follows.*
  TRK : Track
  CHP : Chapter
  TI. : Title
  GR. : Group
- *For a DVD VIDEO and DVD AUDIO, if the source is switched to FM/AM or AUX, the Repeat mode will be cancelled.*

Repeat Playback during Program or Random Playback

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter or track	STEP or REPEAT STEP	↻
Repeats all programmed tracks or all the tracks in Random Playback	ALL or REPEAT ALL	↻ ALL
Cancels repeat	OFF or No display	No display

Playing the designated part repeatedly (A-B Repeat Playback)

DVD VIDEO DVD AUDIO VCD SVCD C D

1 Press ON SCREEN twice during playback.

The menu bar (☞ page 28) will be displayed.

2 Press cursor ◄/► to select ↻ OFF.

3 Press ENTER.

4 Press cursor ▲/▼ to display A–B.

Other Repeat modes can be selected here. For other Repeat modes, refer to “Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)” (☞ page 22).

5 Press ENTER at the start point of the part to be repeated (designating A point).

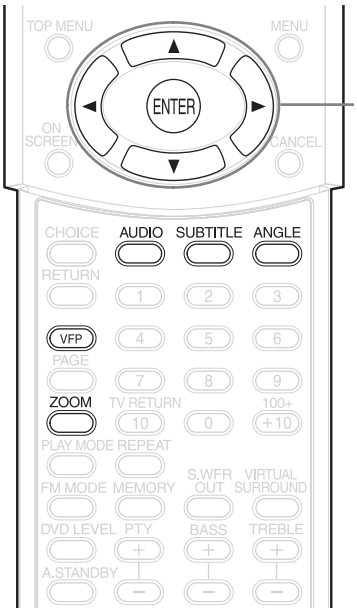
- The icon on the menu bar will be ↻ A-.

6 Press ENTER at the end point of the part to be repeated (designating B point).

- The icon on the menu bar will be ↻ A-B. ↻ will appear blinking on the display window on the main unit and the part between A and B points will be played repeatedly.
- A-B Repeat Playback will be cancelled by carrying out the following operations.
  - Press ■.
  - Select ↻ A-B and press **ENTER** twice.

NOTE

A-B Repeat Playback is possible only within the same title or track. A-B Repeat Playback cannot be carried out during PBC playback, Program Playback, Random Playback and Repeat Playback.

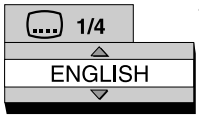


Selecting the subtitles

DVD VIDEO SVCD DVD AUDIO
(only for moving image)

1 Press SUBTITLE during playback of a disc containing subtitles in several languages.

Example:



TV screen

- Each time you press the button, the subtitle will be alternated between ON/OFF.

2 Press cursor ▲/▼ to select a subtitle language.

- For a language code such as “AA”, refer to “Language codes” (☞ page 41).
- The manner of displaying subtitle languages may be different depending on the disc.

3 Wait for a few seconds or press ENTER.

NOTE

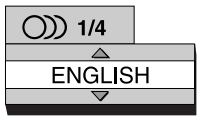
- *It is possible to operate by using the menu bar (☞ page 28).*
- *For a SVCD, each time you press* **SUBTITLE** *in Step* ***1*** *, the subtitle type and ON/OFF will be alternated.*

Selecting the audio language

DVD VIDEO DVD AUDIO VCD SVCD

1 Press AUDIO during playback of a disc containing several audio languages.

Example:



TV screen

- Each time you press the button, the audio language will be alternated. Also, the audio language can be changed by pressing cursor ▲/▼.
- For a language code such as “AA”, refer to “Language codes” (☞ page 41).
- “ST”, “L” and “R” displayed when playing a VCD or SVCD respectively represent “Stereo”, “left sound” and “right sound”.

2 Wait for a few seconds or press ENTER.

NOTE

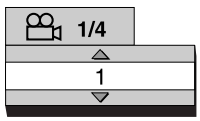
It is possible to operate by using the menu bar (☞ page 28).

Selecting a view angle

DVD VIDEO DVD AUDIO
(only for moving image)

1 Press ANGLE during playback of a scene containing multi-view angles.

Example:



TV screen

- Each time you press the button, the angle will be alternated. Also, the angle can be changed by pressing cursor ▲/▼.

2 Wait for a few seconds or press ENTER.

NOTE

It is possible to operate by using the menu bar (☞ page 28).

Enlarging the picture (ZOOM)

DVD VIDEO VCD SVCD JPEG DVD AUDIO

(only for moving image)

1 Press ZOOM during playback or while paused.

- Each time you press the button, the picture magnification will be changed.
- (For a JPEG) You cannot change the picture magnification during slide-show playback.

2 Select the portion you want to see by using cursor ▲/▼/◄/►.

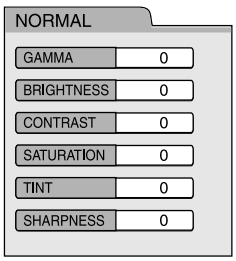
- To resume normal playback, select “OFF” in Step **1**.

Adjusting the picture quality (VFP)

DVD VIDEO DVD AUDIO VCD SVCD JPEG

1 Press VFP during playback or while paused.

“VFP SET” will appear on the display window on the main unit and the current setting will be displayed on the TV screen.



- Gamma: Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- Sharpness: Controls screen sharpness.

2 Press cursor◄/►to select VFP mode.

- It is recommended to select “NORMAL” usually, or “CINEMA” in a dark room. When either “NORMAL” or “CINEMA” is selected, go to Step **7**.
- When either “USER 1” or “USER 2” is selected, the adjustment can be carried out in detail in the operations after Step **3**.

3 Press cursor▲/▼to select an item to be adjusted.

4 Press ENTER.

Example:

TV screen

5 Press cursor▲/▼to change the value.

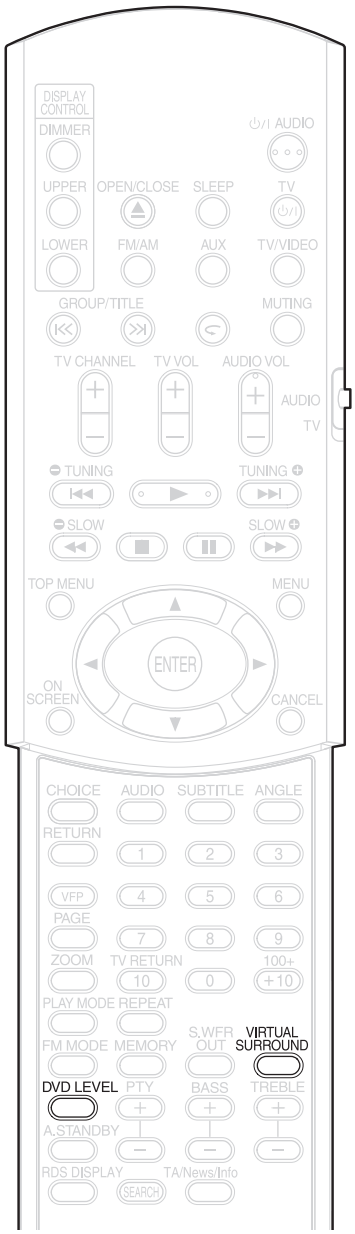
6 Press ENTER.

To adjust other items, go back to Step **3**.

7 Press VFP.

NOTE

- *If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.*
- *“VFP” is an abbreviation of “Video Fine Processor”.*



Creating realistic sound (VIRTUAL SURROUND)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3

The two speakers produce an effect resembling surround-sound.

1 Press VIRTUAL SURROUND during playback.

Example: TV screen

VIRTUAL SURROUND | OFF

- Each time you press the button, the display toggles as follows.

ACTION : Suitable for action movies, sport programs or other lively programs.

DRAMA : You can relax with a natural atmosphere.

THEATER : You can enjoy the sound effect as if you were watching the movie in a theater.

OFF : Cancels VIRTUAL SURROUND (factory setting).

- While VIRTUAL SURROUND is activated, "SURROUND" appears on the display window.

NOTE

- *Virtual Surround is effective for the speakers and headphones.*
- *When noise is produced or sound is distorted, set VIRTUAL SURROUND to "OFF".*
- *You cannot operate some types of DVD AUDIO discs.*
- *"V.SUR." displayed on the display window is an abbreviation of "Virtual Surround".*

Adjusting playback level (DVD LEVEL)

DVD VIDEO DVD AUDIO

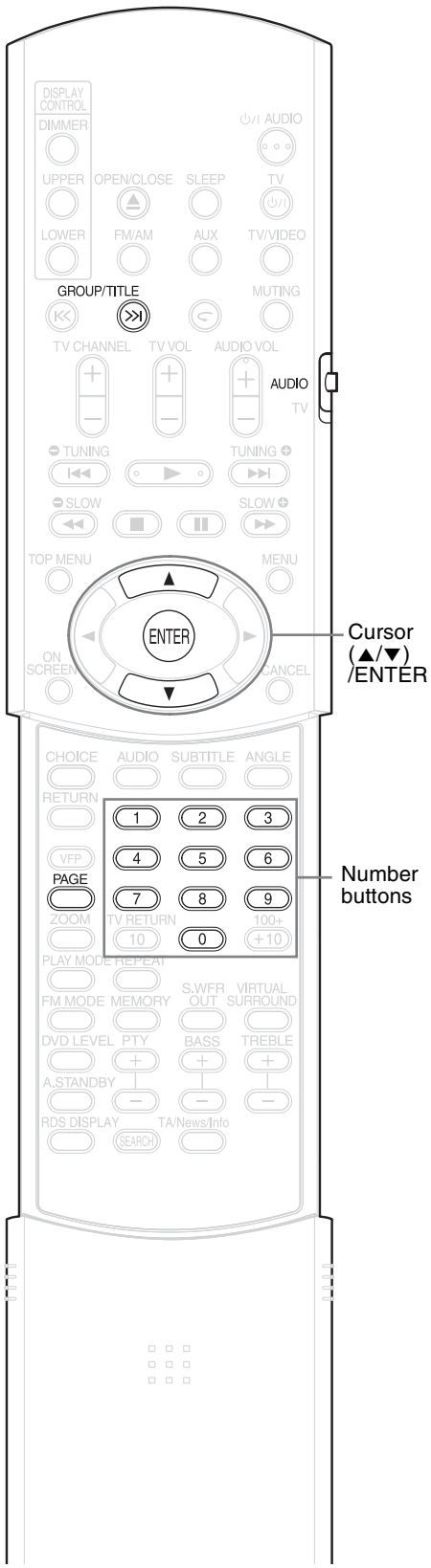
The audio of a DVD VIDEO and DVD AUDIO may be recorded at a lower level (volume) than for other types of disc. If the difference is not to your liking, adjust the DVD Level.

1 Press DVD LEVEL during playback.

- Each time you press the button, the level will be alternated among "NOR" (Normal), "MID" (Middle) and "HIG" (High).
- Select the level while listening to the sound played.

NOTE

- *DVD Level is effective only for playback of a DVD.*
- *Even if the DVD Level is changed, the output level from the digital audio output terminal will not be changed.*
- *This operation can be carried out while the disc is stopped or paused.*



NOTE

Set the remote control mode selector to **AUDIO** *before using the number buttons.*

Playing the Bonus Group

There are some DVD AUDIO discs with a special group, called “Bonus Group”, recorded.

NOTE

This operation can be carried out when “BONUS” is lit on the display window on the main unit.

1 Press GROUP/TITLE ⏭ repeatedly during playback to select a bonus group.

“KEY_ _ _ _” appears on the TV screen, and on the display window on the main unit.

2 Press the number buttons to enter a pin code (4 digits).

The method of getting a pin code may be different depending on the disc.

3 Press ENTER.

- When a correct pin code is entered, “BONUS” disappears and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering a correct pin code again.

Browsable Still Pictures (B.S.P.)

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (Browsable Still Pictures). With these pictures, it is possible to switch a picture as if turning over pages.

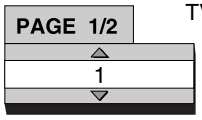
NOTE

This operation can be carried out when “B.S.P.” is lit on the display window on the main unit.

1 Press PAGE during playback.

Each time you press the button, the still picture will be switched over. It is also possible to switch the picture using cursor ▲/▼.

Example:

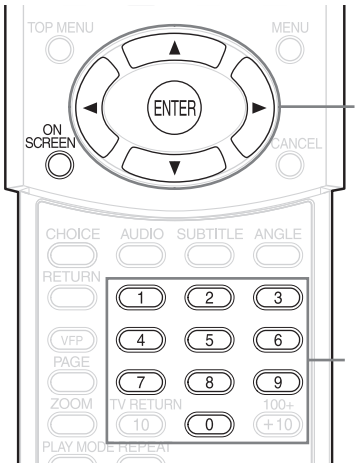


TV screen

2 Wait for a few seconds or press ENTER.

Using the menu bar

DVD VIDEO DVD AUDIO VCD SVCD CD

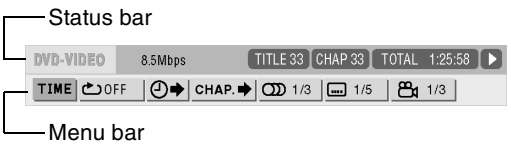


NOTE

- *Set the remote control mode selector to* AUDIO TV *__AUDIO__ before using the number buttons.*
- *This operation can be carried out when there is a disc loaded. There are some functions that may not work while the disc is stopped.*

1 Press ON SCREEN twice.

"ON SCREEN" will appear on the display window on the main unit. The status bar and the menu bar will appear on the TV screen.



The above is an example for a DVD VIDEO.

2 Press cursor◄/►to select an item to be operated.

3 Press ENTER.

- The selected function can be set. For the setting content, refer to the following "Functions list".
- The currently active function shows blue.
- To delete the menu bar, press **ON SCREEN**.

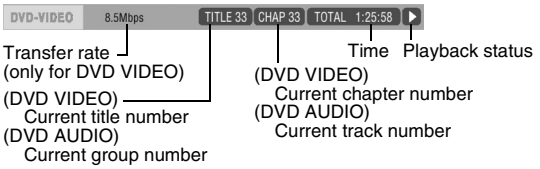
Functions list

For the functions with no special description for the operations, press cursor▲/▼to select, and press **ENTER** to determine.

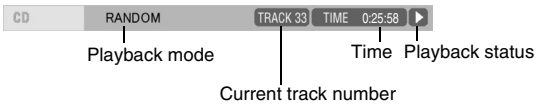
TIME Time display selection	Select this to change time information displayed on the display window on the main unit and the status bar. Each time **ENTER** is pressed, the display will be alternated. **DVD VIDEO/DVD AUDIO (operating during playback)** TOTAL : Elapsed playing time of current title/group. T.REM : Remaining time of current title/group TIME : Elapsed playing time of current chapter/track. REM : Remaining time of current chapter/track **CD (operating during playback)/VCD/SVCD** TIME : Elapsed playing time of current track. REM : Remaining time of current track. TOTAL: Elapsed playing time of disc. T.REM : Remaining time of disc.
Repeat mode	☞ page 22
Time search	☞ page 19
CHAP. / TRACK Chapter search (DVD VIDEO)/Track search (DVD AUDIO)	Select a chapter/track. Press the number buttons to input the chapter/track number and press **ENTER**. Examples: 5: (5) 24: (2) → (4)
Audio language/ Audio (DVD VIDEO/ DVD AUDIO/VCD/ SVCD)	☞ page 24
Subtitle language (DVD VIDEO/SVCD)	☞ page 24
1/3 View angle (DVD VIDEO/DVD AUDIO)	☞ page 24
PAGE -/- Page switch (DVD AUDIO)	Switch the still pictures (B.S.P.) recorded on a DVD AUDIO disc. (☞ page 27)

Information displayed on the status bar

DVD VIDEO/DVD AUDIO (the example below is for a DVD VIDEO)


DVD-VIDEO 8.5Mbps TITLE 33 CHAP 33 TOTAL 1:25:58
Transfer rate (only for DVD VIDEO)
(DVD VIDEO) Current title number
(DVD AUDIO) Current group number
(DVD VIDEO) Current chapter number
(DVD AUDIO) Current track number
Time
Playback status

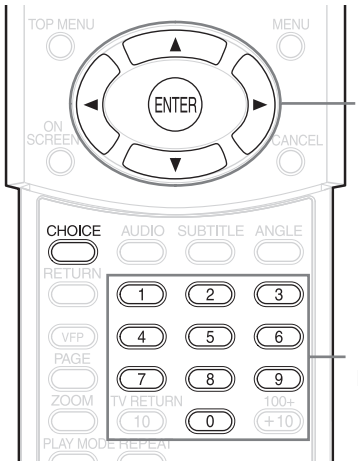
VCD/SVCD/CD (the example below is for a CD)



NOTE

The playback status mark has the same meaning of the mark on the On-screen guide (☞ page 15).

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 JPEG



The initial settings of the system can be changed according to the environment the system is used in.

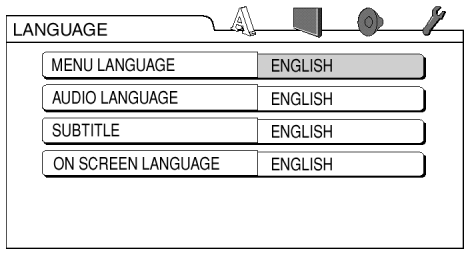
NOTE

- *Set the remote control mode selector to* **AUDIO** *before using the number buttons.* (AUDIO / TV)
- *The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.*

Basic operations

1 Press CHOICE while the disc is stopped or no disc is loaded (“NO DISC” is displayed).

- “SETTING” will appear on the display window on the main unit and the following screen will be displayed on the TV.



- Proceed with operations by following the description on the TV screen.

LANGUAGE

NOTE

- *If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.*
- *For a language code such as “AA”, refer to the “Language codes” (☞ page 41).*

Items	Contents
MENU LANGUAGE	Select the language for the DVD VIDEO menu.
AUDIO LANGUAGE	Select the audio language for the DVD VIDEO.
SUBTITLE	Select the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Select the language displayed on the preference screens.

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	**Select a display method suitable for your TV.** **16 : 9 NORMAL:** Select this when the aspect ratio of your wide TV is fixed to 16:9 (when playing a DVD VIDEO recorded at 4:3, the system automatically adjusts the screen width of the output signal). **16 : 9 AUTO:** Select this when your TV is an ordinary wide TV. **4 : 3 LB (Letter Box) :** Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen. **4 : 3 PS (Pan Scan):** Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. **AUTO:** The video source type (a video or film) is automatically selected. **FILM:** Select this item when you want to view a film or video recorded with the progressive scan method. **VIDEO:** Select this item when you want to view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
MP3/JPEG	If there are both MP3 and JPEG files on a disc, you can select which files to play. When the preference has been changed, open/close the tray and turn on the power again. (A disc with only one of MP3 file or JPEG file recorded can be played regardless of this preference.)

AUDIO

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT	**Select an output signal type from the following in accordance with the device connected to the digital audio output terminal (AV amplifier, etc.). (See the list below for the preference items and output signal.)** **PCM ONLY:** Device corresponding only to linear PCM. **DOLBY DIGITAL/PCM:** Dolby digital decoder or a device having the same function. **STREAM/PCM :** DTS/Dolby digital decoder or a device having the same function.
DOWN MIX	**Switch signal from the digital output terminal of the DVD VIDEO according to the connected device. Select this when Digital Audio Output is set to "PCM ONLY".** **DOLBY SURROUND :** A Dolby Pro Logic decoder-built-in device. **STEREO:** An ordinary device. • When Virtual Surround is ON, Down Mix does not work.
D (Dynamic). RANGE COMPRESSION	**To make adjustments for the difference between a high volume and a low volume when playing back with low volume (only for a DVD recorded with Dolby digital).** **AUTO :** D. Range Compression automatically works. **ON:** D. Range Compression always works.

OTHERS

Items	Contents (: initial setting)
RESUME	**Select ON /OFF. (☞ page 18)**
ON SCREEN GUIDE	**Select ON /OFF. (☞ page 15)**
AV COMPULINK MODE	**This item is currently not used. (This is provided for future use.)**
PARENTAL LOCK	**Set the Parental Lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.)** **COUNTRY CODE (☞ page 31)** Select your country. **SET LEVEL:** The restriction is stricter as the number becomes smaller. "NONE" is no restriction. **PASSWORD (essential):** Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback. • If you enter a wrong password three times, "EXIT" will be automatically selected.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

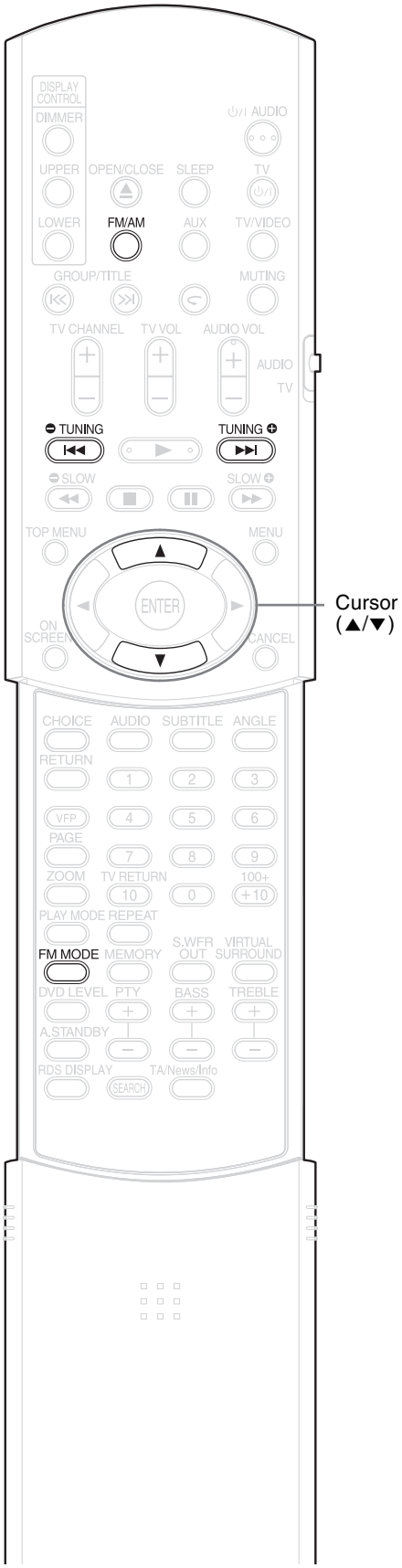
Playback disc	DIGITAL AUDIO OUTPUT preference		
	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
48 kHz, 16/20/24 bits Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bits stereo linear PCM		
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO	48 kHz, 16 bits stereo linear PCM		
44.1/88.2/176.4k Hz, 16/20/24 bits linear PCM DVD AUDIO	44.1 kHz, 16 bits stereo linear PCM		
DTS DVD VIDEO	DTS bit stream	48 kHz, 16 bits stereo linear PCM	
DOLBY DIGITAL DVD VIDEO/ DVD AUDIO	DOLBY DIGITAL bit stream		48 kHz, 16 bits stereo linear PCM
CD/VCD/SVCD	44.1 kHz, 16 bits stereo linear PCM/48kHz, 16 bits linear PCM		
DTS CD	DTS bit stream	44.1 kHz, 16 bits linear PCM	
MP3 disc	No output		

NOTE

- *For a DVD VIDEO without content protection set, there is a 20 bit or 24 bit output at the digital audio output terminal.*

Country/Area codes

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
J P	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe



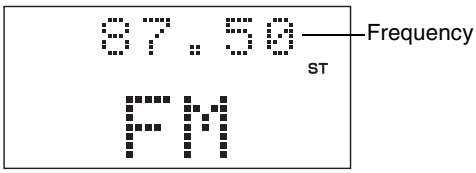
You can tune in to FM or AM.

Selecting a station

1 Press FM/AM.

Each time you press the button, the band will be alternated between FM and AM.

Example:



2 Press TUNING ⊖ or TUNING ⊕ to select the station (frequency).

Automatic tuning:

Hold down **TUNING ⊖** or **TUNING ⊕** until the system starts searching, and then release the button.

When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press **TUNING ⊖** or **TUNING ⊕**.

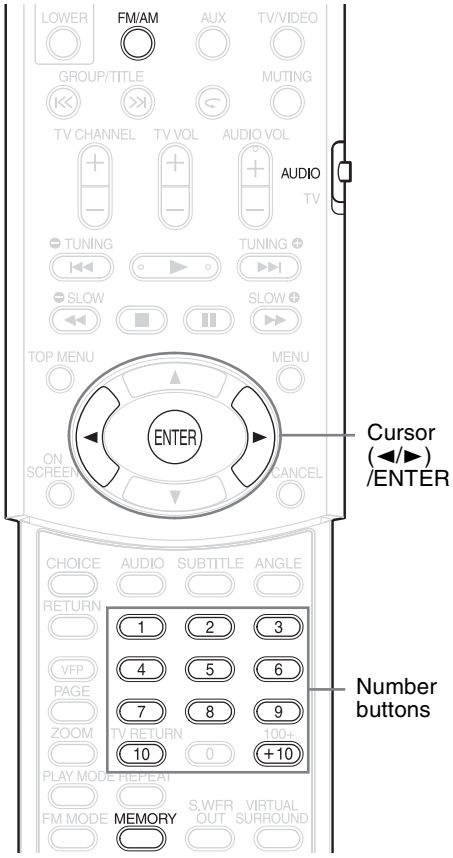
Manual tuning:

Each time you press **TUNING ⊖** or **TUNING ⊕**, the frequency changes.

- When an FM stereo program is received, the “ST” (Stereo) indicator lights.
- You can also select the station with cursor ▲/▼.

NOTE

If the stereo FM program currently tuned in to is noisy, you can improve the reception by pressing **FM MODE** *to switch to the monaural mode (“MONO” lights). If you press* **FM MODE** *again, or tune in to another station, the receiving mode returns automatically to the stereo mode.*



Presetting stations in the system allows you to easily tune in to a station.

NOTE

Set the remote control mode selector to **AUDIO** *before using the number buttons.*

Presetting stations

The system stores up to 30 FM stations and up to 15 AM stations.

1 Select a station you want to store (☞ page 32 for how to select).

2 Press MEMORY.

Figures (memory number) blink on the display window for about 5 seconds.

3 Select the number you want to store by pressing cursor ◄/► while the memory number is blinking.

- You can also select the number by using the number buttons.
- Refer to “How to use the number buttons” (☞ page 15).

4 Press MEMORY or ENTER while the selected number is blinking.

“SET” will be displayed and the selected station will be stored.

NOTE

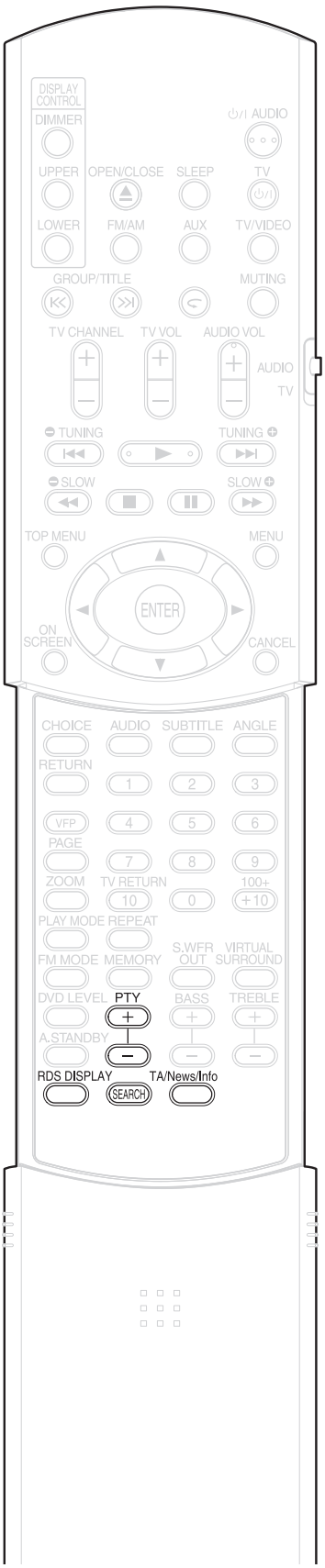
Storing a new station to a used number erases the previously stored station.

Tuning in to a preset station

1 Press FM/AM repeatedly to select either FM or AM.

2 Press the number buttons to select the memory number of a station you want to tune in to.

Refer to “How to use the number buttons” (☞ page 15).
You can also select by pressing cursor ◄/►.

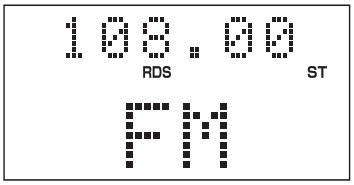


Receiving FM stations with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular program signals.
For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, “RDS” appears on the display window on the main unit.

Example:



You can receive the following types of RDS signals.

PS (Program Service):
Shows commonly known station names.

PTY (Program Type):
Shows types of broadcast programs.

RT (Radio Text):
Shows text messages the station sends.

Enhanced Other Networks:
Refer to page 37.

NOTE

RDS may not work correctly if the received station is not transmitting the signals properly or if the signal strength is weak.

Alarm function

If an “Alarm !” (Emergency) signal is received from a station while listening to the FM station with RDS, the system automatically switches to the station broadcasting the “Alarm !” signal, except when you are listening to non-RDS stations (all AM and some FM stations).

Changing the RDS information

You can see RDS information on the display window on the main unit while listening to an FM station.

Press RDS DISPLAY repeatedly while listening to an FM station.

PS (Program Service):
While searching, “WAIT PS” appears and then the station names will be displayed. “NO PS” appears if no signal is sent.

PTY (Program Type):
While searching, “WAIT PTY" appears and then the type of the broadcast program will be displayed. “NO PTY” appears if no signal is sent.

RT (Radio Text):
While searching, “WAIT RT” appears and then text messages the station sends will be displayed. “NO RT” appears if no signal is sent.

NOTE

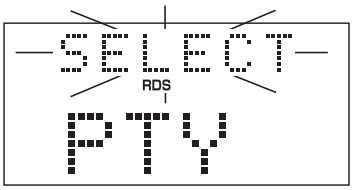
- *If the system takes time to show the RDS information received from a station, “PS”, “PTY” or “RT” may appear on the display window.*
- *When PS, PTY, or RT signals appear on the display window, some special characters and marks may not be displayed correctly.*

Searching for programs by PTY codes (PTY Search)

One of the advantages of RDS is that you can locate a particular kind of program by specifying the corresponding PTY code.

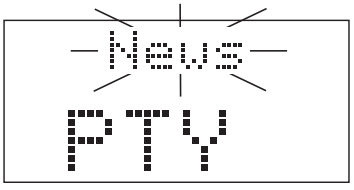
- The PTY Search is applicable only to the preset stations.

1 Press SEARCH when the source is FM.



2 Press PTY ⊕ or PTY ⊖ repeatedly to select a PTY code while “SELECT” is flashing.

Example: when “News” is selected as a PTY code

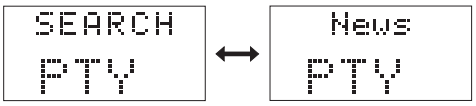


- Refer to page 36 for the PTY codes.

3 Press SEARCH.

While searching, “SEARCH” and the selected PTY codes will be displayed.

Example: when “News” is selected as a PTY code



The system searches 30 preset FM stations, and stops when it finds the one you have selected. At this time the selected frequency and PTY code flash. When “SEARCH” is pressed while the selected frequency and PTY code are flashing, the system automatically starts to find the next station. After the frequency and PTY code stop flashing or if any other operation is done, the system automatically tunes in to the station.

To stop searching, press SEARCH.

If no program is found, “NOTFOUND” appears on the display window and the system returns to the last received station.

PTY codes:

News :	News.
Affairs :	Topical program expanding or enlarging upon the news–debate, or analysis.
Info :	Programs the purpose of which is to impart advice in the widest sense.
Sport :	Programs concerned with any aspect of sports.
Educate :	Educational programs.
Drama :	All radio plays and serials.
Culture :	Programs concerning any aspect of national or regional culture, including language, theater, etc.
Science :	Programs about natural sciences and technology.
Varied :	Used for mainly speech-based programs such as quizzes, panel games and personality interviews.
Pop M :	Commercial music of current popular appeal.
Rock M :	Rock music.
Easy M :	Current contemporary music considered to be “easy-listening”.
Light M :	Instrumental music, and vocal or choral works.
Classics :	Performances of major orchestral works, symphonies, chamber music, etc.
Other M :	Music not fitting into any of the other categories.
Weather :	Weather reports and forecasts.
Finance :	Stock market reports, commerce, trading, etc.
Children :	Programs targeted at a young audience.
Social :	Programs about sociology, history, geography, psychology and society.
Religion :	Religious programs.
Phone In :	Involving members of the public expressing their views either by phone or at a public forum.
Travel :	Travel information.
Leisure :	Programs about recreational activities.
Jazz :	Jazz music.
Country :	Songs which originate from, or continue the musical tradition of the American Southern States.
Nation M :	Current popular music of the nation or region in that country’s language.
Oldies :	Music from the so-called “golden age” of popular music.
Folk M :	Music which has its roots in the musical culture of a particular nation.
Document :	Programs concerning factual matters, presented in an investigative style.
TEST :	Broadcasts for testing emergency broadcast equipment or receiver.
Alarm ! :	Emergency announcement.

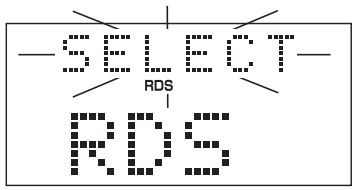
Classification of the PTY codes for some FM stations may be different from the above list.

Switching to a program type of your choice temporarily

The Enhanced Other Networks function allows the system to switch temporarily to a broadcast program of your choice (TA, News, or Info) from a different station when you are listening to a RDS station.

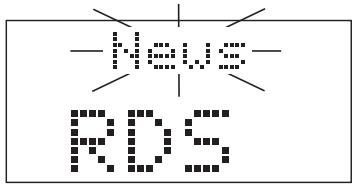
- Enhanced Other Networks function is applicable only to the preset stations.

1 Press TA/News/Info while listening to an FM station with RDS.



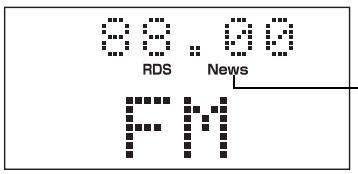
2 While "SELECT" is flashing, press PTY ⊕ or PTY ⊖ repeatedly to select the Enhanced Other Networks data type you want.

Example: when "News" is selected as the data type



TA: Traffic announcement
News: News
Info: Programs the purpose of which is to impart advice in the widest sense.
OFF: The Enhanced Other Networks function is canceled.

3 While the data type is flashing, press TA/News/Info.



Selected data type

Now, this function is activated.

How the Enhanced Other Networks function actually works:

CASE 1

If there is no station broadcasting the program you have selected:

The system continues tuning in to the current station.

↓

When a station starts broadcasting the program you have selected, the system automatically switches to the station. The data type starts flashing on the display window.

↓

When the program is over, the system goes back to the previously tuned station, but the Enhanced Other Networks function still remains activated.

CASE 2

If there is a station broadcasting the program you have selected:

The system tunes in to the program. The data type starts flashing on the display window.

↓

When the program is over, the system goes back to the previously tuned station, but the Enhanced Other Networks function still remains activated.

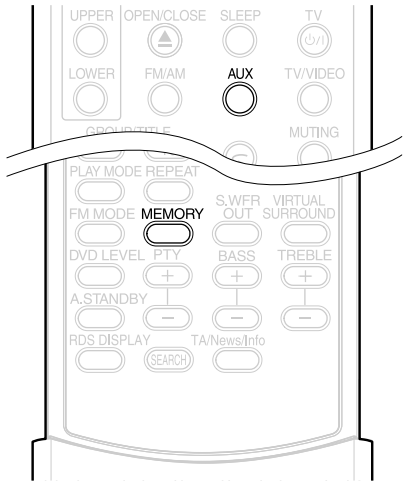
To cancel the Enhanced Other Networks function, select "OFF" in Step 2.

- The Enhanced Other Networks function will also be canceled when you change the source or when you turn off the main unit.

NOTE

- *The Enhanced Other Networks data sent from some stations may not be compatible with this system.*
- *While listening to a program tuned in to by the Enhanced Other Networks function, the station does not change even if another network station starts broadcasting a program of the same Enhanced Other Networks data.*
- *If the stations alternate intermittently between the station tuned in to by the Enhanced Other Networks function and the currently tuned station, press TA/News/Info to cancel the Enhanced Other Networks function.*

Listening to the sound of other audio device



Connect the other audio device to this system in advance (☞ page 10).

1 Press AUX.
The source changes to AUX.

2 Play the other audio device.
For details, refer to the manual of the device connected.

3 Adjust the volume and the sound quality of the system (☞ page 16).

Adjust the sound input level of the audio device

You can adjust the sound input level of another audio device connected to the AUX jack.

1 Press AUX.
The source changes to AUX.

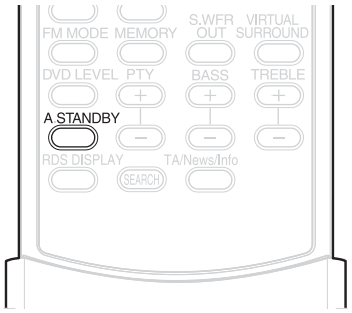
2 Hold down MEMORY until an input level is displayed.
Each time you hold down the button, it switches as follows:
LEVEL 1: Select this normally.

LEVEL 2: Select this when the input level from the other device is too high and the sound is distorted.

The initial setting is “LEVEL1”.

Auto Standby

DVD VIDEO DVD AUDIO VCD SVCD C D MP3 JPEG



If there is no operation for 3 minutes while the disc is stopped, the power will be automatically turned off.

1 Press A.STANDBY during playback or while the disc is stopped, or no disc is loaded (“NO DISC” is displayed).
“A.S.ON” (Auto Standby On) and “A.STANDBY” will be lit on the display window on the main unit.

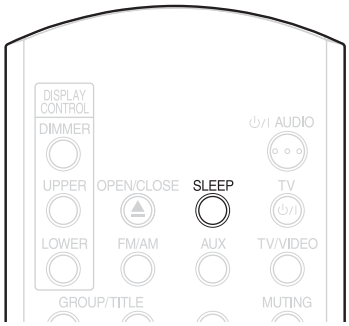
When a stopped state is entered (after playback is finished, for example), “A.STANDBY” starts blinking.
This means that the power will be turned off automatically if there is no operation for 3 minutes. And, 20 seconds before the power is turned off, “POWER OFF” will appear blinking.

Releasing Auto Standby

Press **A.STANDBY**.
“A.S.OFF” (Auto Standby Off) will appear and “A.STANDBY” will be turned off on the display window on the main unit.

NOTE
When the source is FM/AM or AUX, Auto Standby does not work.

Sleep Timer

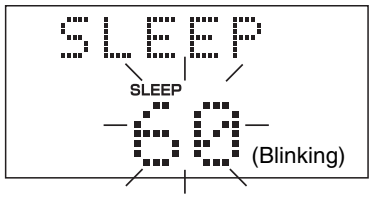


When the time you specify elapses, the system will be turned off by itself.

Press SLEEP.

Each time you press the button, the time indicated on the display window on the main unit changes (in minutes).

Example: When Sleep Timer is set to 60 minutes



Sleep Timer will be automatically set in a few seconds, and the indication will disappear.

NOTE

When Sleep Timer is set, the display window darkens automatically.

Changing the time

Reselect the time by pressing **SLEEP** repeatedly.

Confirming the time

Press **SLEEP** once while Sleep Timer is set.

Releasing

Press **SLEEP** repeatedly until “OFF” appears.

NOTE

Sleep Timer will also be released when the power is turned off.

Tray Lock

You can lock the disc tray to prevent the disc from being ejected.

Setting

Turn off the power. And while holding down ■(Stop) on the main unit, press ⏏(Open/Close).
“LOCKED” appears on the display window on the main unit.

Releasing

Carry out the same operations as those for setting.
“UNLOCKED” appears on the display window on the main unit.

Troubleshooting

When you encounter a problem that seems to be a fault, check the following points before contacting your JVC service center:

Power source

■ **Power does not come on.**
- The power cord is not connected to the main unit or an AC outlet.
  → Connect the power cord correctly. (☞ page 11)

Operation

■ **You cannot operate any button.**
- Some specific operations may be inhibited for some discs.

■ **The remote control does not work.**
- The dry-cell batteries have run out.
  → Replace the batteries. (☞ page 6)

■ **A disc cannot be played back.**
- In the case of DVD VIDEO discs
  → Check the Region Code number of the disc. (☞ page 3)
- "PLAYABLE Err" is displayed on the display window.
  It is not a disc that can be played on this system.
  → Check the disc type. (☞ page 3)
- Parental Lock is set. (☞ page 30)

About images

■ **No picture appears.**
- The SCART cable is not connected correctly.
  → ☞ page 11

■ **The picture is distorted.**
- A VCR is connected between the main unit and the TV set.
  → Connect the main unit directly to the TV set. (☞ page 11)

■ **The screen size is abnormal.**
- The screen size is set improperly.
  → Set "MONITOR TYPE" according to the TV set you are using. (☞ page 29)

■ **The TV screen darkens.**
- "SCREEN SAVER" is set.
  → If set, press any button. (☞ page 29)

About sound

■ **There is no sound.**
- Speakers are not connected correctly.
  → ☞ page 9
- The sound is muted.
  → ☞ page 16
- "NO AUDIO" is displayed on the display window.
  The disc may have been produced through illegal copying.
  → Confirm at the store where you bought the disc.

■ **The sound is weak compared with TV or Video.**
- "DVD LEVEL" is set to "NOR".
  → Set to other than "NOR". (☞ page 26)

■ **The sound is distorted.**
- The volume is turned up too high.
  → Turn down the volume. (☞ page 16)

■ **No sound comes out of the subwoofer.**
- "SUB WFR" is turned off.
  → Press **S.WFR OUT** to turn on. (☞ page 10)

About radio

■ **The sound is noisy while receiving./Receiving is disabled.**
- The antenna is not connected correctly.
  → Connect the antenna correctly. (☞ page 8)

Others

■ **It is not possible to switch audio or subtitles between languages.**

- The disc does not contain 2 or more languages.
  → If only a single language is recorded on the disc, switching to another language is impossible. (☞ page 24)

■ **No subtitle is displayed.**

- The disc does not contain any subtitles.
  → A DVD VIDEO without subtitles cannot display any subtitles.
- The subtitle language is set to “OFF”.
  → Specify a language. (☞ page 29)
- Before or after A point or B point in A-B Repeat Playback, no subtitle may be displayed.

■ **The disc cannot be ejected.**

- Tray Lock is set.
  → ☞ page 39

■ **“LR ONLY” is displayed on the display window (for a DVD AUDIO).**

- Because, for the track being played back, down mix is inhibited for multi-channel sound, the sound of L and R is output directly (a normal action).

If the system does not work properly despite correction measures above

Many functions of this system are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the power plug from the outlet, wait for a while, and reconnect the system.

Language codes

Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
ET	Estonian	RW	Kinyarwanda
EU	Basque	SA	Sanskrit
FA	Persian	SD	Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
HI	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA	Interlingua	SW	Swahili
IE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	TK	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
KS	Kashmiri	UK	Ukrainian
KU	Kurdish	UR	Urdu
KY	Kirghiz	UZ	Uzbek
LA	Latin	VI	Vietnamese
LN	Lingala	VO	Volapuk
LO	Laothian	WO	Wolof
LT	Lithuanian	XH	Xhosa
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

Specifications

General

Power source:	AC 230 V ∿, 50 Hz
Power consumption:	24 W (in operation)
	1 W (on standby)
Weight:	3.0 kg
External dimensions (W × H × D):	232 mm × 100 mm × 269 mm

DVD player

Playable discs:	DVD VIDEO, DVD AUDIO, VCD, Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/RW (video format)

Video output

Color system:	PAL
Horizontal resolution:	500 lines
SCART connector × 1	

Audio output

Analog sound output:	
Speakers × 2	
Output power (IEC 268-3):	60 W (30W + 30 W) at 4 Ω (10% THD)
Fitting impedance:	4 Ω to 16 Ω
Headphones × 1:	11 mW/32 Ω
Fitting impedance:	16 Ω to 1 kΩ
Subwoofer × 1:	500 mVrms/10 kΩ
Digital sound output:	
Optical × 1:	–21 dBm to –15 dBm

Other output

AV COMPU LINK × 2 (ø3.5)

Audio input

Sound input:	AUX × 1
Level 1:	250 mV/50 kΩ
Level 2:	500 mV/50 kΩ

Tuner

FM tuner:	
Receiving frequency:	87.50 MHz to 108.00 MHz
Antenna:	75 Ω- unbalanced type
AM tuner:	
Receiving frequency:	522 kHz to 1629 kHz
Antenna:	External antenna jack (loop antenna)

Speaker

Type:	1-way bass-reflex type Magnetically shielded type
Speaker:	8 cm cone × 1
Power handling capacity:	30 W
Impedance:	4 Ω
Sound pressure level:	81 dB/W·m (EX-A1)
	82 dB/W·m (EX-P1)
Dimension (W × H × D):	120 mm × 161 mm × 239 mm
Weight (1 unit):	1.6 kg (EX-A1)
	1.9 kg (EX-P1)

Designs and Specifications are subject to change without notice.

EX-A1/EX-P1 COMPACT COMPONENT SYSTEM

JVC

EN

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